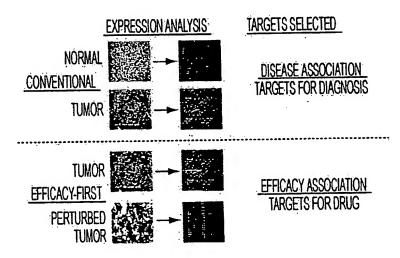
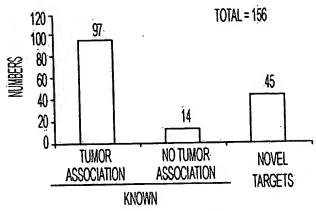
Applicants: Patrick Y. I
Application No.: 10/551,667
Confirmation No.: 5623
For: TARGETS Patrick Y. Lu et al. Docket No.: INTM/017 Filed: July 18, 2006 For: TARGETS FOR TUMOR GROWTH INHIBITION
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ADVANTAGE OF EFFICACY-FIRST DISCOVERY™ METHOD FIG. 1



 $\begin{array}{c} \text{HighLy enriched tumor targets} \\ \textbf{FIG. 2} \end{array}$

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SIRNA MEDIATED TARGET VALIDATION (MDA-MB-435 XENOGRAFT MODEL) 1400 N=8 1200 → ICTE1030-siRNA (CELL SURFACE PROTEIN) -- ICTB1031-siRNA (LIGAND) -- GFP-siRNA

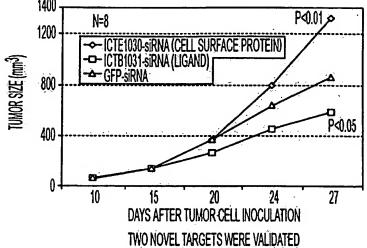
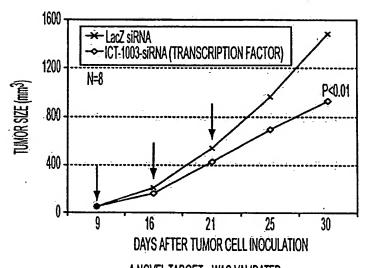
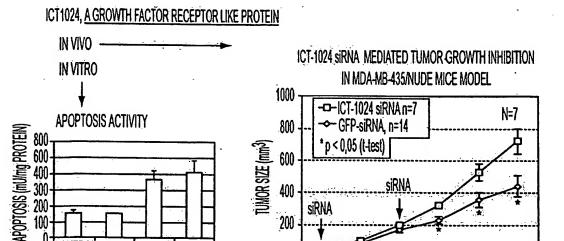


FIG. 3



A NOVEL TARGET WAS VALIDATED FIG. 4

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d11

d14

d18

d21

DAYS POST TUMOR CELL INOCULATION

d25

d28

FIG. 5

MOCK

sirna duplexes

2 μд

5 µд DCT-1024 siRNA DUPLEXES

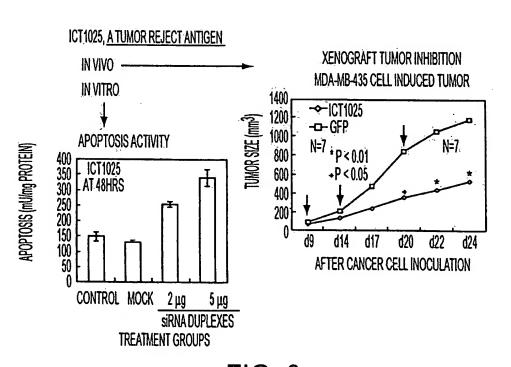
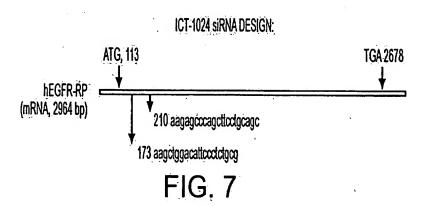
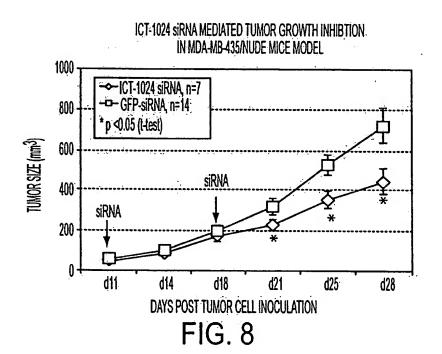


FIG. 6

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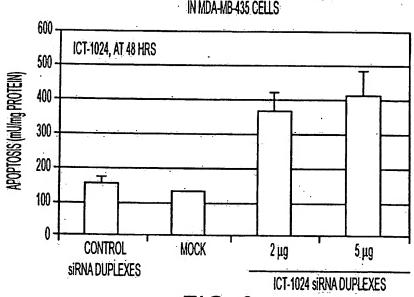


FIG. 9

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REPLACEMENT SHEET

SAGE/MICROARRAY DATA

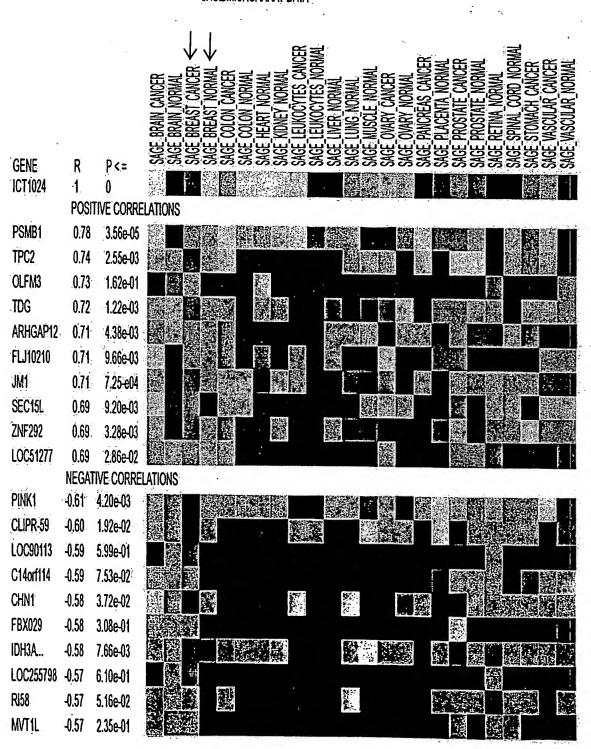


FIG. 10

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CANCER TISSUE DISTRIBUTION

ED LOVELE VILLE						
FRAGMENT NAME	218686 s at	-				
SEQ. ACCESSION	NM_022450					
GENE NAME	LIKELY ORTHOL	OG OF MOUSE	EPIDERMAL G	ROWTH FAC	TOR RECEPTO	R, RELATED SEQUENCE
						.,
BREAST NORMAL VS. IN	FILTRATING DUCT	CARCINOMA (IDC)STAGE 1			
		•				
FOLD CHANGE			1.69			
DIRECTION			UP	:		
FOLD CHANGE P-VALUE			01			
I OLD OIDMOLT TAKEUL	L					
	NORMAL	IDC S-I	IDC S-II	IDC S-III	IDC S-IV	<i>‡</i>
# OF SAMPLES (n)	83	19	30	. 19	6	
MEAN	159.73	264.5	192.96	195.16	284.29	
STDDEV	50.03	70.64	82.37	77.41	71.09	
MEDIAN	164.53	283.05	191.27	187.7	271.59	
PRESENT CAL%	79	100	80	84	83	

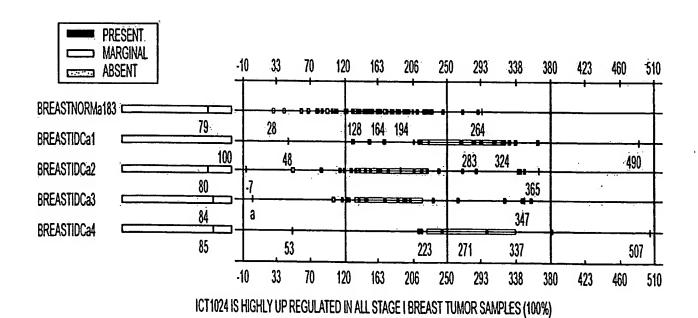


FIG. 11

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REPLACEMENT SHEET

Consensus in rhomboid family

Human Yeast Bacteria Yeast Human Bacteria Human Bacteria Plant	consensus 1 gi 9963865 99 gi 3738201 47 gi 1653749 49 gi 13621505 60 gi 20139804 103 gi 1169951 129 gi 11066250 198 gi 13813618 68 gi 9294149 242	10 20 30 40 50 60 *
Human Yeast Bacteria Yeast Human Bacteria Human Bacteria Plant	consensus 58 gi 9963865 156 gi 3738201 105 gi 1653749 105 gi 13621505 118 gi 20139804 160 gi 1169951 186 gi 11066250 257 gi 13813618 126 gi 9294149 299	70 80 90 100 110 120 *
Human Yeast Bacteria Yeast Human Bacteria Human Bacteria Plant	consensus 111 gi 9963865 212 gi 3738201 160 gi 1653749 159 gi 13621505 170 gi 20139804 212 gi 1169951 231 gi 11066250 307 gi 13813618 176 gi 9294149 353	130 140 150 160 170*

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Human Rhomboid Family Protein Alignments Human rhomboid Proteins

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		a	
467 alihlgakfspcmrqdpqvhsfirsarerekhsaccvrndrsgcvqtseeecsstlavwvkwpihpsapelaghkrqfgsvchqdprvcdepssedphewpeditkwpictknsagn 78 78 78 78 78 78 78 78 78 78 78 78 78 7	584 htnhphmdcvitgrpccigtkgrceitsreycdfmrgyfheeatlcsqvhcmddvcgil-pfl-npevpdqfyrlwlsifilhagilhclvsicfcmtvlrdleklagwhriaifyllsg 88	701 vtgmlasaiflpyraevgpagsqfgilaclfvelfgg-wqilarpwraff-kllavvlflftfgl-lpw-idnf	788 pyisfgkfdlyrkrcqiiifqvvflgllaglvvlfyvypvrcewcefltcipftdkfcekveldaglh 253 vfsctdkallkdprfwialaaylacvlfa-vffniflspan 1
ICT-1024 HRhomboid HRhomboid HRhomboid HRhomboid HRhomboid	ICT-1024 HRhomboid 2 HRhomboid 3 HRhomboid 4 HRhomboid 5 HRhomboid 5	ICT-1024 HRhomboid HRhomboid HRhomboid HRhomboid	ICT-1024 HRhomboid HRhomboid HRhomboid HRhomboid HRhomboid

FIG. 13(continued)

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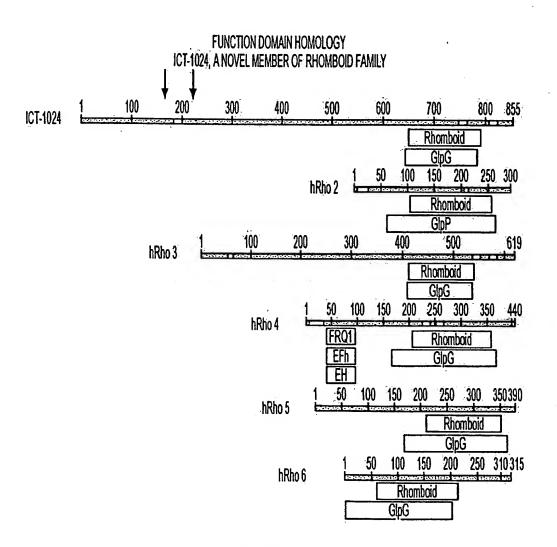


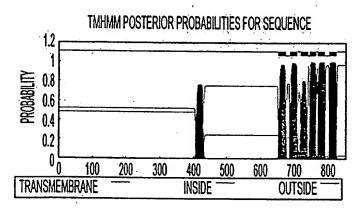
FIG. 14

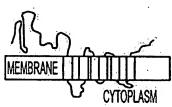
Filed: July 18, 2006

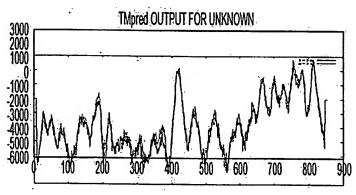
Applicants: Patrick Y. Lu et al. Docket No.: INTM/017
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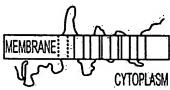


FIG. 15

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ACTIVATION OF EGFRS AND LIGANDS

ICT-1024 INTRAMEMBRANE PROTEASE ACTIVITY

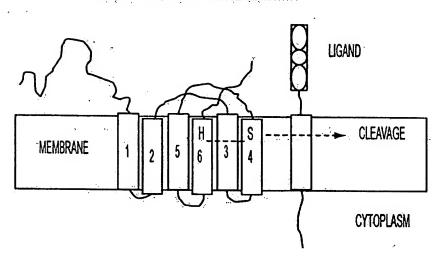


FIG. 16

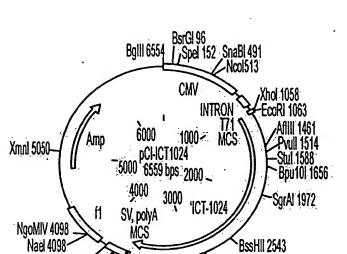
Applicants: Patrick Y. Lu et al. Docket No.: INTM/017
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Confirmation No.: 5623

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98 Clai 3886 Muni 3801 Hpal 3790 Sall 3638 Bpu, 1021 3623 FIG. 17

Tth 11112840

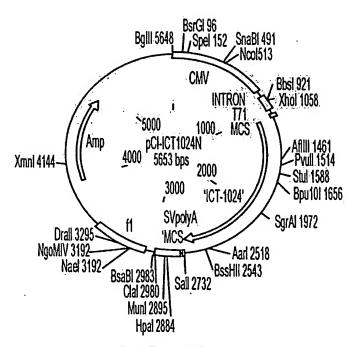
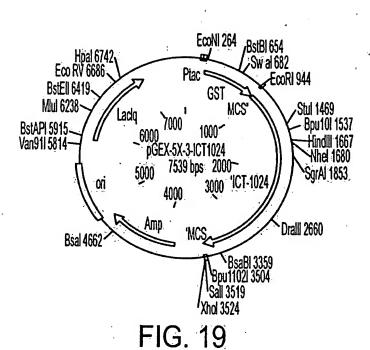


FIG. 18

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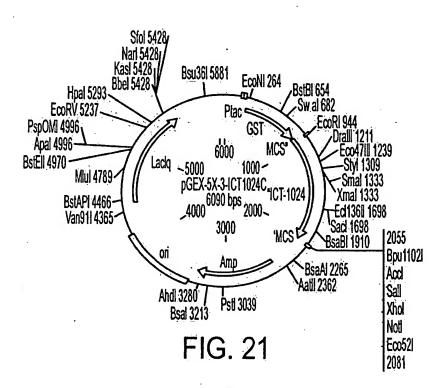


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Sall 2613
Tth11112800 Xhol 2618 MCSE Amp Bsal 3756

FIG. 20

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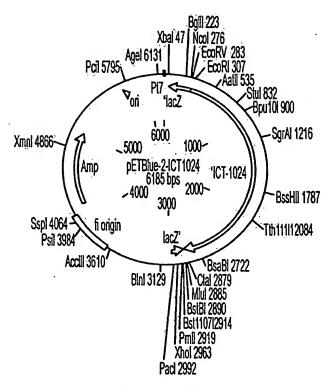


FIG. 22

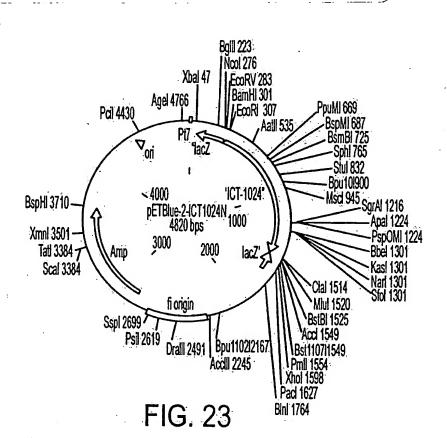
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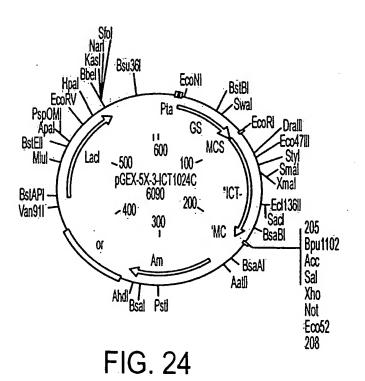
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(SEQ ID NO:58) ICT1024 PROTEIN (855 AA) CODING REGION: 1670-3637 TCAATATTGG CCATTAGCCA TATTATTCAT TGGTTATATA GCATAAATCA ATATTGGCTA TTGGCCATTG CATACGTTGT ATCTATATCA TAATATGTAC ATTTATATTG GCTCATGTCC 61 121 AATATGACCG CCATGTTGGC ATTGATTATT GACTAGTTAT TAATAGTAAT CAATTACGGG 181 GTCATTAGTT CATAGCCCAT ATATGGAGTT CCGCGTTACA TAACTTACGG TAAATGGCCC 241 GCCTGGCTGA CCGCCCAACG ACCCCCGCCC ATTGACGTCA ATAATGACGT ATGTTCCCAT 301 AGTAACGCCA ATAGGGACTT TCCATTGACG TCAATGGGTG GAGTATTTAC GGTAAACTGC CCACTTGGCA GTACATCAAG TGTATCATAT GCCAAGTCCG CCCCCTATTG ACGTCAATGA 361 421 CGGTAAATGG CCCGCCTGGC ATTATGCCCA GTACATGACC TTACGGGACT TTCCTACTTG 481 GCAGTACATC TACGTATTAG TCATCGCTAT TACCATGGTG ATGCGGTTTT GGCAGTACAC 541 CAATGGGCGT GGATAGCGGT TTGACTCACG GGGATTTCCA AGTCTCCACC CCATTGACGT 601 CAATGGGAGT TTGTTTTGGC ACCAAAATCA ACGGGACTTT CCAAAATGTC GTAATAACCC 661 CGCCCCGTTG ACGCAAATGG GCGGTAGGCG TGTACGGTGG GAGGTCTATA TAAGCAGAGC 721 TCGTTTAGTG AACCGTCAGA TCACTAGAAG CTTTATTGCG GTAGTTTATC ACAGTTAAAT 781 TGCTAACGCA GTCAGTGCTT CTGACACAAC AGTCTCGAAC TTAAGCTGCA GAAGTTGGTC 841 GTGAGGCACT GGGCAGGTAA GTATCAAGGT TACAAGACAG GTTTAAGGAG ACCAATAGAA 901 ACTGGGCTTG TCGAGACAGA GAAGACTCTT GCGTTTCTGA TAGGCACCTA TTGGTCTTAC TGACATCCAC TTTGCCTTTC TCTCCACAGG TGTCCACTCC CAGTTCAATT ACAGCTCTTA 961 1021 AGGCTAGAGT ACTTAATACG ACTCACTATA GGCTAGCCTC GAGAATTCCA TGAGTGAGGC 1081 CCGCAGGGAC AGCACGAGCA GCCTGCAGCG CAAGAAGCCA CCCTGGCTAA AGCTGGACAT 1141 TCCCTCTGCG GTGCCCCTGA CGGCAGAAGA GCCCAGCTTC CTGCAGCCCC TGAGGCGACA 1201 GGCTTTCCTG AGGAGTGTGA GTATGCCAGC CGAGACAGCC CACATCTCTT CACCCCACCA 1261 TGAGCTCCGG CGGCCGGTGC TGCAACGCCA GACGTCCATC ACACAGACCA TCCGCAGGGG 1321 GACCGCCGAC TGGTTTGGAG TGAGCAAGGA CAGTGACAGC ACCCAGAAAT GGCAGCGCAA 1381 GAGCATCCGT CACTGCAGCC AGCGCTACGG GAAGCTGAAG CCCCAGGTCC TCCGGGAGCT 1441 GGACCTGCCC AGCCAGGACA ACGTGTCGCT GACCAGCACC GAGACGCCAC CCCCACTCTA 1501 CGTGGGGCCA TGCCAGCTGG GCATGCAGAA GATCATAGAC CCCCTGGCCC GTGGCCGTGC 1561 CTTCCGTGTG GCAGATGACA CTGCGGAAGG CCTGAGTGCC CCACACACTC CCGTCACGCC 1621 GGGTGCTGCC TCCCTCTGCT CCTTCTCCAG CTCCCGCTCA GGTTTCCACC GGCTCCCGCG 1681 GCGGCGCAAG CGAGAGTCGG TGGCCAAGAT GAGCTTCCGG GCGGCCGCAG CGCTGATGAA 1741 AGGCCGCTCC GTTAGGGATG GCACCTTTCG CCGGGCACGG CGTCGAAGCT TCACTCCAGC 1801 TAGCTTTCTG GAGGAGGACA CAACTGATTT CCCCGATGAG CTGGACACAT CCTTCTTTGC 1861 CCGGGAAGGT ATCCTCCATG AAGAGCTGTC CACATACCCG GATGAAGTTT TCGAGTCCCC 1921 ATCGGAGGCA GCGCTAAAGG ACTGGGAGAA GGCACCGGAG CAGGCGGACC TCACCGGCGG 1981 GGCCCTGGAC CGCAGCGAGC TTGAGCGCAG CCACCTGATG CTGCCCTTGG AGCGAGGCTG 2041 GCGGAAGCAG AAGGAGGGCG CCGCAGCCCC GCAGCCCAAG GTGCGGCTCC GACAGGAGGT GGTGAGCACC GCGGGGCCGC GACGGGGCCA GCGTATCGCG GTGCCGGTGC GCAAGCTCTT 2101

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2161 CGCCCGGGAG AAGCGGCCGT ATGGGCTGGG CATGGTGGGA CGGCTCACCA ACCGCACCTA 2221 CCGCAAGCGC ATCGACAGCT TCGTCAAGCG CCAGATCGAG GACATGGACG ACCACAGGCC 2281 CTTCTTCACC TACTGGCTTA CCTTCGTGCA CTCGCTCGTC ACCATCCTAG CCGTGTGCAT 2341 CTATGGCATC GCGCCCGTGG GCTTCTCGCA GCATGAGACG GTGGACTCGG TGCTGCGGAA 2401 CCGCGGGGTC TACGAGAACG TCAAGTACGT GCAGCAGGAG AACTTCTGGA TCGGGCCCAG 2461 CTCGGAGGCC CTCATCCACC TGGGCGCCAA GTTTTCGCCC TGCATGCGCC AGGACCCGCA GGTGCACAGC TTCATTCGCT CGGCGCGCGA GCGCGAGAAG CACTCCGCCT GCTGCGTGCG 2521 CAACGACAGG TCGGGCTGCG TGCAGACCTC GGAGGAGGAG TGCTCGTCCA CGCTGGCAGT 2581 GTGGGTGAAG TGGCCCATCC ATCCCAGCGC CCCAGAGCTT GCGGGCCACA AGAGACAGTT 2641 2701 TGGCTCTGTC TGCCACCAGG ATCCCAGGGT GTGTGATGAG CCCTCCTCCG AAGACCCTCA 2761 TGAGTGGCCA GAAGACATCA CCAAGTGGCC GATCTGCACC AAAAACAGCG CTGGGAACCA 2821 CACCAACCAT CCCCACATGG ACTGTGTCAT CACAGGACGG CCCTGCTGCA TTGGCACCAA 2881 GGGCAGGTGT GAGATCACCT CCCGGGAGTA CTGTGACTTC ATGAGGGGCT ACTTCCATGA GGAGGCCACG CTCTGCTCTC AGGTGCACTG CATGGATGAT GTGTGTGGGC TCCTGCCTTT 2941 3001 TCTCAACCCC GAGGTGCCTG ACCAGTTCTA CCGCCTGTGG CTATCCCTCT TCCTGCACGC 3061 CGGGATCTTG CACTGCCTGG TGTCCATCTG CTTCCAGATG ACTGTCCTGC GGGACCTGGA 3121 GAAGCTGGCA GGCTGGCACC GCATAGCCAT CATCTACCTG CTGAGTGGTG TCACCGGCAA CCTGGCCAGT GCCATCTTCC TGCCATACCG AGCAGAGGTG GGTCCTGCTG GCTCCCAGTT 3181 CGGCATCCTG GCCTGCCTCT TCGTGGAGCT CTTCCAGAGC TGGCAGATCC TGGCGCGGCC 3241 3301 CTGGCGTGCC TTCTTCAAGC TGCTGGCTGT GGTGCTCTTC CTCTTCACCT TTGGGCTGCT 3361 GCCGTGGATT GACAACTTTG CCCACATCTC GGGGTTCATC AGTGGCCTCT TCCTCTCTT 3421 CGCCTTCTTG CCCTACATCA GCTTTGGCAA GTTCGACCTG TACCGGAAAC GCTGCCAGAT 3481 CATCATCTT CAGGTGGTCT TCCTGGGCCT CCTGGCTGGC CTGGTGGTCC TCTTCTACGT 3541 CTATCCTGTC CGCTGTGAGT GGTGTGAGTT CCTCACCTGC ATCCCCTTCA CTGACAAGTT 3601 CTGTGAGAAG TACGAACTGG ACGCTCAGCT CCACTGAGTC GACCCGGGCG GCCGCTTCGA GCAGACATGA TAAGATACAT TGATGAGTTT GGACAAACCA CAACTAGAAT GCAGTGAAAA 3661 3721 AAATGCTTTA TTTGTGAAAT TTGTGATGCT ATTGCTTTAT TTGTAACCAT TATAAGCTGC AATAAACAAG TTAACAACAA CAATTGCATT CATTTTATGT TTCAGGTTCA GGGGGAGATG 3781 3841 TGGGAGGTTT TTTAAAGCAA GTAAAACCTC TACAAATGTG GTAAAATCGA TAAGGATCCG 3901 GGCTGGCGTA ATAGCGAAGA GGCCCGCACC GATCGCCCTT CCCAACAGTT GCGCAGCCTG 3961 AATGGCGAAT GGACGCGCC TGTAGCGGCG CATTAAGCGC GGCGGGTGTG GTGGTTACGC 4021 GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCCGC TCCTTTCGCT TTCTTCCCTT 4081 CCTTTCTCGC CACGTTCGCC GGCTTTCCCC GTCAAGCTCT AAATCGGGGG CTCCCTTTAG GGTTCCGATT TAGAGCTTTA CGGCACCTCG ACCGCAAAAA ACTTGATTTG GGTGATGGTT 4141 4201 CACGTAGTGG GCCATCGCCC TGATAGACGG TTTTTCGCCC TTTGACGTTG GAGTCCACGT TCTTTAATAG TGGACTCTTG TTCCAAACTG GAACAACACT CAACCCTATC TCGGTCTATT 4261 CTTTTGATTT ATAAGGGATT TTGCCGATTT CGGCCTATTG GTTAAAAAAT GAGCTGATTT

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				•		•
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4441	TATTTTCTCC	TTACGCATCT	GTGCGGTATT	TCACACCGCA	TATGGTGCAC	TCTCAGTACA
4501	ATCTGCTCTG	ATGCCGCATA	GTTAAGCCAG	CCCCGACACC	CGCCAACACC	CGCTGACGCG
4561	CCCTGACGGG	CTTGTCTGCT	CCCGGCATCC	GCTTACAGAC	AAGCTGTGAC	CGTCTCCGGG
4621	AGCTGCATGT	GTCAGAGGTT.	TTCACCGTCA	TCACCGAAAC	GCGCGAGACG	AAAGGCCTC
4681	GTGATACGCC	TATTTTTATA	GGTTAATGTC	ATGATAATAA	TGGTTTCTTA	GACGTCAGGT
4741	GGCACTTTTC	GGGGAAATGT	GCGCGGAACC	CCTATTTGTT	TATTTTTCTA	AATACATTCA
4801	AATATGTATC	CGCTCATGAG	ACAATAACCC	TGATAAATGC	TTCAATAATA	TTGAAAAAGG
4861	AAGAGTATGA	GTATTCAACA	TTTCCGTGTC	GCCCTTATTC	CCTTTTTTGC	GGCATTTTGC
4921	CTTCCTGTTT	TTGCTCACCC	AGAAACGCTG	GTGAAAGTAA	AAGATGCTGA	AGATCAGTTG
4981	GGTGCACGAG	TGGGTTACAT	CGAACTGGAT	CTCAACAGCG	GTAAGATCCT	TGAGAGTTTT
5041	CGCCCCGAAG	AACGTTTTCC	AATGATGAGC	ACTTTTAAAG	TTCTGCTATG	TGGCGCGGTA
5101	TTATCCCGTA	TTGACGCCGG	GCAAGAGCAA	CTCGGTCGCC	GCATACACTA	TTCTCAGAAT
5161	GACTTGGTTG	AGTACTCACC	AGTCACAGAA	AAGCATCTTA	CGGATGGCAT	GACAGTAAGA
5221	GAATTATGCA	GTGCTGCCAT	AACCATGAGT	GATAACACTG	CGGCCAACTT	ACTTCTGACA
5281	ACGATCGGAG	GACCGAAGGA	GCTAACCGCT	TTTTTGCACA	ACATGGGGGA	TCATGTAACT
5341	CGCCTTGATC	GTTGGGAACC	GGAGCTGAAT	GAAGCCATAC	CAAACGACGA	GCGTGACACC
5401	ACGATGCCTG	TAGCAATGGC	AACAACGTTG	CGCAAACTAT	TAACTGGCGA	ACTACTTACT
5461				ATGGAGGCGG		
5521	CTGCGCTCGG	CCCTTCCGGC	TGGCTGGTTT	ATTGCTGATA	AATCTGGAGC	CGGTGAGCGT
5581	GGGTCTCGCG	GTATCATTGC	AGCACTGGGG	CCAGATGGTA	AGCCCTCCCG	TATCGTAGTT
5641				GATGAACGAA		
5701				TCAGACCAAG		The state of the s
5761				AGGATCTAGG		
5821				TCGTTCCACT		
5881					•	CTTGCAAACA
5941						AACTCTTTTT
6001						AGTGTAGCCG
6061				GCACCGCCTA		
6121						GGACTCAAGA
6181				GGCTGAACGG		
6241						ATGAGAAAGC
6301						GGTCGGAACA
6361						TCCTGTCGGG
6421						GCGGAGCCTA
6481			GGCCTTTTTA	CGGTTCCTGG	CCTTTTGCTG	GCCTTTTGCT
6541	CACATGGCTC	GACAGATCT				

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Express Mail Label No.: EM125015763US Docket No.: INTM/017 Filed: July 18, 2006

REPLACEMENT SHEET

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(SEQ	ID NO:60) I	CT1024 N TE	RMINUS 553	AA CODING R	EGION: 1070-	-2731
1	TCAATATTGG	CCATTAGC C	A TATTATTCA	T TGGTTATAT	A GCATAAATC	A ATATTGGCTA
61	TTGGCCATTG	CATACGTTGT	ATCTATATCA	TAATATGTAC	ATTTATATTG	GCTCATGTCC
121					TAATAGTAAT	
181				•	TAACTTACGG	
241					ATAATGACGT	
301					GAGTATTTAC	
361	CCACTTGGCA	GTACATCAAG	TGTATCATAT	GCCAAGTCCG	CCCCCTATTG	ACGTCAATGA
421	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTACGGGACT	TTCCTACTTG
481	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	GGCAGTACAC
5.41	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	CCATTGACGT
601	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	GTAATAACCC
661	CGCCCCGTTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	TAAGCAGAGC
721	TCGTTTAGTG	AACCGTCAGA	TCACTAGAAG	CTTTATTGCG	GTAGTTTATC	ACAGTTAAAT
781	TGCTAACGCA	GTCAGTGCTT	CTGACACAAC	AGTCTCGAAC	TTAAGCTGCA	GAAGTTGGTC
841	GTGAGGCACT	GGGCAGGTAA	GTATCAAGGT	TACAAGACAG	GTTTAAGGAG	ACCAATAGAA
901					TAGGCACCTA	
961					CAGTTCAATT	
1021					GAGAATTCCA	
1081					CCCTGGCTAA	
1141					CTGCAGCCCC	
1201					CACATCTCTT	
1261					ACACAGACCA	
1321					ACCCAGAAAT	
1381					CCCCAGGTCC	
1441					GAGACGCCAC	
1501					CCCCTGGCCC	
1561					CCACACACTC	
1621					GGTTTCCACC	
1681					GCGGCCGCAG	
1741					CGTCGAAGCT	
1801					CTGGACACAT	
1861					GATGAAGTTT	
1921					CAGGCGGACC	
1981					CTGCCCTTGG	
2041					GTGCGGCTCC	
2101	GGTGAGCACC	GCGGGGCCGC	GACGGGGCCA	GCGTATCGCG	GTGCCGGTGC	GCAAGCTCTT

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CGCCCGGGAG	እ ፡እ ሮሮሮሮሮሮሞ				
000000000000000000000000000000000000000	ANGCGGCCGI	ATGGGCTGGG	CATGGTGGGA	CGGCTCACCA	ACCGCACCTA
CCGCAAGCGC	ATCGACAGCT	TCGTCAAGCG	CCAGATCGAG	GACATGGACG	ACCACAGGCC
CTTCTTCACC	TACTGGCTTA	CCTTCGTGCA	CTCGCTCGTC	ACCATCCTAG	CCGTGTGCAT
CTATGGCATC	GCGCCCGTGG	GCTTCTCGCA	GCATGAGACG	GTGGACTCGG	TGCTGCGGAA
CTCGGAGGCC	CTCATCCACC	TGGGCGCCAA	GTTTTCGCCC	TGCATGCGCC	AGGACCCGCA
GGTGCACAGC	TTCATTCGCT	CGGCGCGCGA	GCGCGAGAAG	CACTCCGCCT	GCTGCGTGCG
TGGCTCTGTC	TGCCACCAGG	ATCCCAGGTG	AGTCGACCCG	GGCGGCCGCT	TCGAGCAGAC
TTTATTTGTG	AAATTTGTGA	TGCTATTGCT	TTATTTGTAA	CCATTATAAG	CTGCAATAAA
GTTTTTTAAA	GCAAGTAAAA	CCTCTACAAA	TGTGGTAAAA	TCGATAAGGA	TCCGGGCTGG
CGTAATAGCG	AAGAGGCCCG	CACCGATCGC	CCTTCCCAAC	AGTTGCGCAG	CCTGAATGGC
GAATGGACGC	GCCCTGTAGC	GGCGCATTAA	GCGCGGCGGG	TGTGGTGGTT	ACGCGCAGCG
TGACCGCTAC	ACTTGCCAGC	GCCCTAGCGC	CCGCTCCTTT	CGCTTTCTTC	CCTTCCTTTC
TCGCCACGTT	CGCCGGCTTT	CCCCGTCAAG	CTCTAAATCG	GGGGCTCCCT	TTAGGGTTCC
GATTTAGAGC	TTTACGGCAC	CTCGACCGCA	AAAAACTTGA.	TTTGGGTGAT	GGTTCACGTA
GTGGGCCATC	GCCCTGATAG	ACGGTTTTTC	GCCCTTTGAC	GTTGGAGTCC	ACGTTCTTTA
TGCAGTGCTG	CCATAACCAT	GAGTGATAAC	ACTGCGGCCA	ACTTACTTCT	GACAACGATC
	CCGCAAGCGC CTTCTTCACC CTATGCATC CCGCGGGGTC CTCGGAGGCC GGTGCACAGC CAACGACAGG GTGGGTGAAG TGGCTCTGTC ATGATAAGAT TTTATTTGTG CAAGTTAACA GTTTTTTAAA CGTAATAGGC GAATGGACGC TGACCGCTAC TCGCCACGTT GATTTAAAGG TATTTAAAGG CTGGGCCATC ATAGTGGACT ATTTAAAGG TATTTAACGC CTCCTTACGC TCTGATGCCG CGGGCTTGTC ATGTGTCAGA CGCCTATTT TTTCGGGGAA TATCCGCTCA ATGAGTATTC GTTTTTGCTC CGAGTGGGTT CGAGTAGTCC CTGATGCCG CTCTTTTCCC CGAGTGGGTT CGAGTAGTT CGTATTGACG GTTGAGTACT	CCGCAAGCGC ATCGACAGCT CTTCTTCACC TACTGGCTTA CTATGGCATC GCGCCCGTGG CCGCGGGGTC TACGAGAACG CTCGGAGGCC CTCATCCACC GGTGCACAGC TTCATTCGCT CAACGACAGG TCGGGCTGCG GTGGGTGAAG TGGCCCATCC TGGCTCTGTC TGCCACCAGG ATGATAAGAT ACATTGATGA CTTTTTTTGTG AAATTTGTGA CAAGTTAACA ACAACAATTG GTTTTTTAAA GCAAGTAAAA CGTAATAGCG AAGAGGCCCG GAATGGACGC GCCCTGTAGC TGACCGCTAC ACTTGCCAGC TGACCGCTAC ACTTGCCAGC TGACCGCTAC TTTACGGCAC GTGGGCCATC GCCCTGATAG ATTTATAAGG GATTTTGCCG TATTTAAAGG GATTTTGCCG TATTTAACGC GAATTTTAAC CTCCTTACGC ATCTGTCCAA ATTTATAAGG GATTTTAAC CTCCTTACGC CATAGTTAAG CGGGCTTGTC TGCTCCCGGC ATGTGCCG CATAGTTAAA TTTCGGGGAA ATGTGCGCGG TATCCGCTCA TGAGACAATA ATGAGTATTC AACATTCCG GTTTTTGCTC ACCCAGAACC CGAGTGGGTT ACATCGAACT GAAGAACGTT TTCCAATGAT CGTATTGACG CCGGGCAAGA GTTGAGTACT CACCAGTCAC	CCGCAAGCGC ATCGACAGCT TCGTCAAGCG CTTCTTCACC TACTGGCTTA CCTTCGTGCA CCTATGGCATC GCGCCCGTGG GCTTCTCGCA CCGCGGGGTC TACGAGAACG TCAAGTACGT CTCGGAGGCC CTCATCCACC TGGGCGCCCAA GGTGCACAGG TCGGCTGCG TGCAGACCTC GTGGGTGAAG TGGCCCATCC ATCCCAGCGC TGGCTCTCTC TGCCACCAGG ATCCCAGGGC ATGATAAGAT ACATTGATGA GTTTGGACAA TTTATTTGTG AAATTTGTGA TGCTATTTT CAAGTTAACA ACAACAATTG CATTCATTT GTTTTTTAAA GCAAGTAAAA CCTCTACAAA CGTAATAGCG ACCCTGTAGC GCCCTAGCGC TGGCCACGTT CGCCGGCTTT CCCCGTCAAG GATTTAGAGC TTTACGGCAC GCCCTAAGC GATTTAGAGC TTTACGGCAC CTCGACCGCA TCGCCACGTT CGCCGGCTTT CCCCGTCAAG GATTTAAGGC GATTTTCCAA ACTGGAACAA ATTTATAAGG GATTTTACC ACTGGACCAC TCTCTTACGC ACTTGTTCCAA ACTGGAACAA ATTTATAAGG GATTTTACC AAAATATTAA CTCCTTACGC ATCTGTCCAG ACTGGCCT TATTTAACGC GAATTTAAC AAAATATTAA CTCCTTACGC CATTGTCCAA ACTGGAACAA ATTTATAAGG GATTTTCCAC ATCTCGCCT TATTTACGC CATTGTCCAA ACTGGAACAA ATTTATAAGG GATTTTACC ATCTGTCCGC CGCCTTATTT TATAGGTTAA TGTCATCACC CGCCTATTTT TATAGGTTAA TGTCATGATA TTTCGGGGAA ATGTGCGCG AACCCCTATT TATCCGCTCA TGAGACAATA ACCCTTATA ATGGGTATTC ACCAGAAAA ACCCCTATT TATCCGCTCA TGAGACAATA ACCCTGATAA ATGAGTATTC AACATTTCCG TGTCGCCCT TGTTTTGCTC ACCCAGAAAC GCTGGTGAAA ATGAGTATTC AACATTTCCG TGTCGCCCTT GAGACAATA ACCCTGATAA ATGAGTATTC ACCCAGAAC GCTGGTGAAA CCGAGTGGGTT ACCCAGAAAC GCTGGTGAAA CGAGAGAACGTT TTCCAATGAT GAGCACTTTT CGTATTGACG CCGGGCAAGA GCAACTCGGT CGTATTTGACC CCGGGCAAGA GCAACTCGGT CGTATTTGACC CCGGGCAAGA GCAACTCGGT CGTATTTGACC CCGGGCAAGA GCAACTCGGT CGTATTGACC CCGGGCAAGA GCAACTCGGT CGTATTGACC CCGGGCAAGA GCAACTCGGT CGTATTGACC CCGGGCAAGA GCAACTCGGT CGTATTGACC CCGGGCAAGA GCAACTCGGT CGTTTGAGTACT CACCAGTCAC AGAAAAAGCAT	CCGCAAGCGC ATCGACAGCT TCGTCAAGCG CCAGATCGAG CTTCTTCACC TACTGGCTTA CCTTCGTGCA CTCGCTCGTC CTATGGCATC GCGCCCGTGG GCTTCTCGCA GCATGAGACG CCGCGGGGTC TACGAGAACG TCAAGTACGT GCAGCAGGAG CTCGGAGGCC CTCATCCACC TGGGCGCCAA GTTTTCGCCC GGTGCACAGC TCCATCCACC TGGGCGCCAA GCTCTTCGCCC GGTGCACAGG TCGGCTGCG TGCAGACCTC GGAGGAGGAG CTGGGTGAAG TCGCCCATCC ATCCCAGCGC CCCAGAGCTT TGGCTCTGTC TGCCACCAGG ATCCCAGCGC CCCAGACCTC ATGATAAGAT ACATTGATGA GTTTGGACAA ACCACAACTA TTTATTTGTG AAATTTGTGA TGCTATTGT TTATTTGTAA CAAGTAAAAA ACACAATTG CATTCATTAA TGTTTCAGG GTTTTTTAAA GCAAGAAAAA CCCTCTACAAA TGTGGTAAAA CGTAATAGCG ACCCGGCCC CCCCCTCTTT CGCCACGTT CGCCGGCTT CCCCGTCAAG CCCCTCTTT TGGCCACGT CGCCGGCTT CCCCGTCAAG CCCCTCTTT TGGCCACGT CGCCGGCTT CCCCGTCAAG CCCCTCTTT TAGGGCCACC CTTGACC GCCCTAAGC CCCCTCTTT TAGGGCCACC CCCCTGTAGC GCCCTAAGC CCCCTCTTT TAGGCCACGT CGCCGGCTT CCCCGTCAAG CCCCTCTTT TATAGAGC TTTACGGCAC CTCGACCGC AAAAACTTGA ATTTATAAGG GATTTTCCAA ACTGGAACAA CACTCAACCC ATTTATAAGG GATTTTCCCA ACTGGAACAA CACTCAACCC ATTTATAAGG GATTTTCCCA ACTGGAACAA CACTCAACCC ATTTATAAGG GATTTTCCCA ACTGGAACAA CACTCAACCC ATTTATAACG GAATTTTAAC AAAATATTAA CGTTTACAAT TCTCCTTACGC ATCTGTCGG TATTTCACAC GCCATATAGT TCCGTCAGA ACTTGTCCGG TATTTCACAC GCCATATGGT TCTGATGCCG CATAGTTAAG CCAGCCCCGA CACCCGCCAA CGGGCTTGTC TGCTCCCGGC ATCCGCTTAC AGACAAGCTG ATGTGTCAGA GGTTTTCACC GTCATCACC AAACGCGCGA CGCCTATTTT TATAGGTTAA ACCCTGATAA ATCACTTTT TTTCGGGGAA ATGTCCCGG ACCCCCTAT TGTTTATTT TATCCGCTCA TGAGACAATA ACCCTGATAA ATCACTTTT TTTCGGGGAA ATGTCCCGG TTCTCACC AAACGCGCGA CGCCTATTTT TATAGGTTAA ACCCTGATAA ATCCCTTTT TTTCGGGGAA ATGTCCCG TGTCCCCTT TGTTTATTTT TATCCGCTCA TGAGACAATA ACCCTGATAA ATCCCTTTT TTTTCGGGGAA ATGTCCCG TGTCCCTTT TGTTTATTTT TATCCGCTCA TGAGACAATA ACCCCTATT TGTTTATTTT TATCCGCTCA TGAGACAATA ACCCCTGATA ATCCCTTTT TTTTTGCTC ACCCAGAACC GCTGGTGAAA GTAAAAGATG CGAGTGGGTT ACATCGAC GGATCTCAC AGCCGCTAAC CGGATAGGA CACCCTATT TAAAAAGATG CGAGTGGGTT ACATCGAC GACCCTTT AAAAGTGC CGAGTGGGTT ACACCAGAAC GCTGGTGAAA GTAAAAGATG CGAGTGGGTT ACACCAGAAC GCACCTTTT AAAAGTTCCC CGTATTGACC CACCAGAAC CACCCGGTAAC CGTATTGAC CACCAGAAC CAC	CGCCCGGGAG AAGCGGCCGT ATGGCTGGC CCGCAAGCCC ATCGACAGCT CCGCAAGCCC CTTCTTCACC TACTGGCTTA CCTTCGTCAC CCGCAGGCT CTACTGGCTTA CCTTCGTCAC CCGCGGGGCC CTACTCCACC CTACTGGCTC CTACGAGAACG CTCATCCACC CTGAGGGCC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGCGCCCAA CTCATCCACC CGGGGCCCAC CTCATCCACC CTGGAGGCC CTCATCCACC CTGGCCCACC CTCACCACC CTCACCCC CTGAGGCCC CTCACCACC CTCACCACC CTGCGCGCACC CTCACCCCC CTGCGCGCACC CTCACCCCC CTGCGCCCACC CTCCACCACC CTCATCCACC CTCCACCACC CTCCACCACC CTCCACCACC CTCCACCACC CTCCACCACC CTCATCCACC CTCCACCACC CTCATCACC CTCCACCACC CTCCACCACC CTCATCACAC CTTTTTTTATAC CAATTGATAC CAATTGATAC CAACTAAAA CCTCTACAAA CCTTTCCACC CTCCACCACC CACCACCACC CCCACCACC CACCACCACC

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4381	GGAGGACCGA	AGGAGCTAAC	CGCTTTTTTG	CACAACATGG	GGGATCATGT	AACTCGCCTT	
4441	GATCGTTGGG	AACCGGAGCT	GAATGAAGCC	ATACCAAACG	ACGAGCGTGA	CACCACGATG	
4501	CCTGTAGCAA	TGGCAACAAC	GTTGCGCAAA	CTATTAACTG	GCGAACTACT	TACTCTAGCT	
4561	TCCCGGCAAC	AATTAATAGA	CTGGATGGAG	GCGGATAAAG	TTGCAGGACC	ACTTCTGCGC	
4621	TCGGCCCTTC	CGGCTGGCTG	GTTTATTGCT	GATAAATCTG	GAGCCGGTGA	GCGTGGGTCT	
4681	CGCGGTATCA	TTGCAGCACT	GGGGCCAGAT	GGTAAGCCCT	CCCGTATCGT	AGTTATCTAC	
4741	ACGACGGGGA	GTCAGGCAAC	TATGGATGAA	CGAAATAGAC	AGATCGCTGA	GATAGGTGCC	
4801	TCACTGATTA	AGCATTGGTA	ACTGTCAGAC	CAAGTTTACT	CATATATACT	TTAGATTGAT	
4861	TTAAAACTTC	ATTTTTAATT	TAAAAGGATC	TAGGTGAAGA	TCCTTTTTGA	TAATCTCATG	
4921	ACCAAAATCC	CTTAACGTGA	GTTTTCGTTC	CACTGAGCGT	CAGACCCCGT	AGAAAAGATC	
4981				CGCGTAATCT			
5041	CCACCGCTAC	CAGCGGTGGT	TTGTTTGCCG	GATCAAGAGC	TACCAACTCT	TTTTCCGAAG	
5101	GTAACTGGCT	TCAGCAGAGC	GCAGATACCA	AATACTGTCC	TTCTAGTGTA	GCCGTAGTTA.	
5161	GGCCACCACT	TCAAGAACTC	TGTAGCACCG	CCTACATACC	TCGCTCTGCT	AATCCTGTTA	
5221	CCAGTGGCTG	CTGCCAGTGG	CGATAAGTCG	TGTCTTACCG	GGTTGGACTC	AAGACGATAG	
5281	TTACCGGATA	AGGCGCAGCG	GTCGGGCTGA	ACGGGGGGTT	CGTGCACACA	GCCCAGCTTG	
5341	GAGCGAACGA	CCTACACCGA	ACTGAGATAC	CTACAGCGTG	AGCTATGAGA	AAGCGCCACG	
5.40.1				CCGGTAAGCG			
5461	CGCACGAGGG	AGCTTCCAGG	GGGAAACGCC	TGGTATCTTT	ATAGTCCTGT [*]	CGGGTTTCGC	
5521	CACCTCTGAC	TTGAGCGTCG	ATTTTTGTGA	TGCTCGTCAG	GGGGGCGAG	CCTATGGAAA	
5581	AACGCCAGCA	ACGCGGCCTT	TTTACGGTTC	CTGGCCTTTT	GCTGGCCTTT	TGCTCACATG	
5641	GCTCGACAGA	TCT					

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(SEQ	ID NO: 61)	ICT1024 cod	ing region:	947-3518		
1	TCGACTCGAG	CGGCCGCATC	GTGACTGACT	GACGATCTGC	CTCGCGCGTT	TCGGTGATGA
61	CGGTGAAAAC	CTCTGACACA	TGCAGCTCCC	GGAGACGGTC	ACAGCTTGTÇ	TÇTAAGCGGA
121	TGCCGGGAGC	AGACAAGCCC	GTCAGGGCGC	GTCAGCGGGT	GTTGGCGGGT	GTCGGGGCGC
181	AGCCATGACC	CAGTCACGTA	GCGATAGCGG	AGTGTATAAT	TCTTGAAGAC	GAAAGGGCCT
241	CGTGATACGC	CTATTTTTAT	AGGTTAATGT	CATGATAATA	ATGGTTTCTT	AGACGTCAGG
301	TGGCACTTTT	CGGGGAAATG	TGCGCGGAAC	CCCTATTTGT	TTATTTTTCT	AAATACATTC
361	AAATATGTAT	CCGCTCATGA	GACAATAACC	CTGATAAATG	CTTCAATAAT	ATTGAAAAAG
421	GAAGAGTATG	AGTATTCAAC	ATTTCCGTGT	CGCCCTTATT	CCCTTTTTTG	CGGCATTTTG
481	CCTTCCTGTT	TTTGCTCACC	CAGAAACGCT	GGTGAAAGTA	AAAGATGCTG	AAGATCAGTT
541	GGGTGCACGA	GTGGGTTACA	TCGAACTGGA	TCTCAACAGC	GGTAAGATCC	TTGAGAGTTT
601	TCGCCCCGAA	GAACGTTTTC	CAATGATGAG	CACTTTTAAA	GTTCTGCTAT	GTGGCGCGGT
661	ATTATCCCGT	GTTGACGCCG	GGCAAGAGCA	ACTCGGTCGC	CGCATACACT	ATTCTCAGAA
721	TGACTTGGTT	GAGTACTCAC	CAGTCACAGA	AAAGCATCTT	ACGGATGGCA	TGACAGTAAG
781	AGAATTATGC	AGTGCTGCCA	TAACCATGAG	TGATAACACT	GCGGCCAACT	TACTTCTGAC
841	AACGATCGGA	GGACCGAAGG	AGCTAACCGC	TTTTTTGCAC	AACATGGGGG	ATCATGTAAC
901	TCGCCTTGAT	CGTTGGGAAC	CGGAGCTGAA	TGAAGCCATA	CCAAACGACG	AGCGTGACAC
961					TTAACTGGCG	
1021					GATAAAGTTG	
1081					AAATCTGGAG	
1141					AAGCCCTCCC	
1201	TATCTACACG	ACGGGGAGTC	AGGCAACTAT	GGATGAACGA	AATAGACAGA	TCGCTGAGAT
1261					GTTTACTCAT	
1321	GATTGATTTA.	AAACTTCATT	TTTAATTTAA	AAGGATCTAG	GTGAAGATCC	TTTTTGATAA
1381	TCTCATGACC	AAAATCCCTT	AACGTGAGTT	TTCGTTCCAC	TGAGCGTCAG	ACCCCGTAGA
1441	AAAGATCAAA	GGATCTTCTT	GAGATCCTTT	TTTTCTGCGC	GTAATCTGCT	GCTTGCAAAC
1501	AAAAAAACCA	CCGCTACCAG	CGGTGGTTTG	TTTGCCGGAT	CAAGAGCTAC	CAACTCTTTT
1561	TCCGAAGGTA	ACTGGCTTCA	GCAGAGCGCA	GATACCAAAT	ACTGTCCTTC	TAGTGTAGCC
1621	GTAGTTAGGC	CACCACTTCA	AGAACTCTGT	AGCACCGCCT	ACATACCTCG	CTCTGCTAAT
1681	CCTGTTACCA	GTGGCTGCTG	${\tt CCAGTGGCGA}$	TAAGTCGTGT	CTTACCGGGT	TGGACTCAAG
1741	ACGATAGTTA	CCGGATAAGG	CGCAGCGGTC	GGGCTGAACG	GGGGGTTCGT	GCACACAGCC
1801	CAGCTTGGAG	CGAACGACCT	ACACCGAACT	GAGATACCTA	CAGCGTGAGC	TATGAGAAAG
1861	CGCCACGCTT	CCCGAAGGGA	GAAAGGCGGA	CAGGTATCCG	GTAAGCGGCA	GGGTCGGAAC
1921	AGGAGAGCGC	ACGAGGGAGC	TTCCAGGGGG	AAACGCCTGG	TATCTTTATA	GTCCTGTCGG
1981	GTTTCGCCAC	CTCTGACTTG	AGCGTCGATT	TTTGTGATGC	TCGTCAGGGG	GGCGGAGCCT
2041	ATGGAAAAAC	GCCAGCAACG	CGGCCTTTTT	ACGGTTCCTG	GCCTTTTGCT	GGCCTTTTGC
2101						CCGCCTTTGA

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2161	GTGAGCTGAT	ACCGCTCGCC	GCAGCCGAAC	GACCGAGCGC	AGCGAGTCAG	TGAGCGAGGA
2221	AGCGGAAGAG	CGCCTGATGC	GGTATTTTCT	CCTTACGCAT	CTGTGCGGTA	TTTCACACCG
2281	CATAAATTCC	GACACCATCG	AATGGTGCAA	AACCTTTCGC	GGTATGGCAT	GATAGCGCCC
2341	GGAAGAGAGT	CAATTCAGGG	TGGTGAATGT	GAAACCAGTA	ACGTTATACG	ATGTCGCAGA
2401	GTATGCCGGT	GTCTCTTATC	AGACCGTTTC	CCGCGTGGTG	AACCAGGCCA	GCCACGTTTC
2461	TGCGAAAACG	CGGGAAAAAG	TGGAAGCGGC	GATGGCGGAG	CTGAATTACA	TTCCCAACCG
2521	CGTGGCACAA	CAACTGGCGG	GCAAACAGTC	GTTGCTGATT	GGCGTTGCCA	CCTCCAGTCT
2581	GGCCCTGCAC	GCGCCGTCGC	AAATTGTCGC	GGCGATTAAA	TCTCGCGCCG	ATCAACTGGG
2641	TGCCAGCGTG	GTGGTGTCGA	TGGTAGAACG	AAGCGGCGTC	GAAGCCTGTA	AAGCGGCGGT
2701	GCACAATCTT	CTCGCGCAAC	GCGTCAGTGG	GCTGATCATT	AACTATCCGC	TGGATGACCA
2761	GGATGCCATT	GCTGTGGAAG	CTGCCTGCAC	TAATGTTCCG	GCGTTATTTC	TTGATGTCTC
2821	TGACCAGACA	CCCATCAACA	GTATTATTTT	CTCCCATGAA	GACGGTACGC	GACTGGGCGT
2881	GGAGCATCTG	GTCGCATTGG	GTCACCAGCA	AATCGCGCTG	TTAGCGGGCC	CATTAAGTTC
2941	TGTCTCGGCG	CGTCTGCGTC	TGGCTGGCTG	GCATAAATAT	CTCACTCGCA	ATCAAATTCA
3001	GCCGATAGCG	GAACGGGAAG	GCGACTGGAG	TGCCATGTCC	GGTTTTCAAC	AAACCATGCA
3061	AATGCTGAAT	GAGGGCATCG	TTCCCACTGC	GATGCTGGTT	GCCAACGATC	AGATGGCGCT
3121	GGGCGCAATG	CGCGCCATTA	CCGAGTCCGG	GCTGCGCGTT	GGTGCGGATA	TCTCGGTAGT
3181	GGGATACGAC	GATACCGAAG	ACAGCTCATG	TTATATCCCG	CCGTTAACCA	CCATCAAACA
3241	GGATTTTCGC	CTGCTGGGGC	AAACCAGCGT	GGACCGCTTG	CTGCAACTCT	CTCAGGGCCA
3301	GGCGGTGAAG	GGCAATCAGC	TGTTGCCCGT	CTCACTGGTG	AAAAGAAAAA	CCACCCTGGC
3361	GCCCAATACG	CAAACCGCCT	CTCCCCGCGC	GTTGGCCGAT	TCATTAATGC	AGCTGGCACG
3421	ACAGGTTTCC	CGACTGGAAA	GCGGGCAGTG	AGCGCAACGC	AATTAATGTG	AGTTAGCTCA
3481	CTCATTAGGC	ACCCCAGGCT	TTACACTTTA	TGCTTCCGGC	TCGTATGTTG	TGTGGAATTG
3541	TGAGCGGATA	ACAATTTCAC	ACAGGAAACA	GCTATGACCA	TGATTACGGA	TTCACTGGCC
3601	GTCGTTTTAC	AACGTCGTGA	CTGGGAAAAC	CCTGGCGTTA	CCCAACTTAA	TCGCCTTGCA
3661	GCACATCCCC	CTTTCGCCAG	CTGGCGTAAT	AGCGAAGAGG	CCCGCACCGA	TCGCCCTTCC
3721	CAACAGTTGC	GCAGCCTGAA	TGGCGAATGG	CGCTTTGCCT	GGTTTCCGGC	ACCAGAAGCG
3781	GTGCCGGAAA	GCTGGCTGGA	GTGCGATCTT	CCTGAGGCCG	ATACTGTCGT	CGTCCCTCA
3841	AACTGGCAGA	TGCACGGTTA	CGATGCGCCC	ATCTACACCA	ACGTAACCTA	TCCCATTACG
3901	GTCAATCCGC	CGTTTGTTCC	CACGGAGAAT	CCGACGGGTT	${\tt GTTACTCGCT}$	CACATTTAAT
3961	GTTGATGAAA	GCTGGCTACA	GGAAGGCCAG	ACGCGAATTA	TTTTTGATGG	CGTTGGAATT
4021	AGCTTATCGA	CTGCACGGTG	CACCAATGCT	TCTGGCGTCA	GGCAGCCATC	GGAAGCTGTG
4081	GTATGGCTGT	GCAGGTCGTA	AATCACTGCA	TAATTCGTGT	CGCTCAAGGC	GCACTCCCGT
4141	TCTGGATAAT	GTTTTTTGCG	CCGACATCAT	AACGGTTCTG	GCAAATATTC	TGAAATGAGC
4201	TGTTGACAAT	TAATCATCGG	CTCGTATAAT	GTGTGGAATT	GTGAGCGGAT	AACAATTTCA
4261	CACAGGAAAC	AGTATTCATG	TCCCCTATAC	TAGGTTATTG	GAAAATTAAG	GGCCTTGTGC
4321	AACCCACTCG	ACTTCTTTTG	GAATATCTTG	AAGAAAAATA	TGAAGAGCAT	TTGTATGAGC

FIG. 27 (continued)

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4381	GCGATGAAGG	TGATAAATGG	CGAAACAAAA	AGTTTGAATT	GGGTTTGGAG	TTTCCCAATC
4441	TTCCTTATTA	TATTGATGGT	GATGTTAAAT	TAACACAGTC	TATGGCCATC	ATACGTTATA
4501	TAGCTGACAA	GCACAACATG	TTGGGTGGTT	GTCCAAAAGA	GCGTGCAGAG	ATTTCAATGC
4561	TTGAAGGAGC	GGTTTTGGAT	ATTAGATACG	GTGTTTCGAG	AATTGCATAT	AGTAAAGACT
4621					AATGCTGAAA	
4681	ATCGTTTATG	TCATAAAACA	TATTTAAATG	GTGATCATGT	AACCCATCCT	GACTTCATGT
<i>4</i> 741	TGTATGACGC	TCTTGATGTT	GTTTTATACA	TGGACCCAAT	GTGCCTGGAT	GCGTTCCCAA
4801	AATTAGTTTG	TTTTAAAAAA	CGTATTGAAG	CTATCCCACA	AATTGATAAG	TACTTGAAAT
4861	CCAGCAAGTA	TATAGCATGG	CCTTTGCAGG	GCTGGCAAGC	CACGTTTGGT	GGTGGCGACC
4921	ATCCTCCAAA	ATCGGATCTG-	ATCGAAGGTC	GTGGGATCCC	CAGG	

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			٠.		
(SEQ	ID NO: 62) ICT102	4 N terminus 553	aa coding	region: 947-	-2600
1	AGCTTATCGA CTGCA	CGGTG CACCAATGCT	TCTGGCGTCA	GGCAGCCATC	GGAAGCTGTG
61	GTATGGCTGT GCAGG	ICGTA AATCACTGCA	TAATTCGTGT	CGCTCAAGGC	GCACTCCCGT
121	TCTGGATAAT GTTTT	TTGCG CCGACATCAT	AACGGTTCTG	GCAAATATTC	TGAAATGAGC
181	TGTTGACAAT TAATC	ATCGG CTCGTATAAT	GTGTGGAATT	GTGAGCGGAT	AACAATTTCA
241	CACAGGAAAC AGTAT	CATG TCCCCTATAC	TAGGTTATTG	GAAAATTAAG	GGCCTTGTGC
301	AACCCACTCG ACTTC	TTTTG GAATATCTTG	AAGAAAAATA	TGAAGAGCAT	TTGTATGAGC
361	GCGATGAAGG TGATA	AATGG CGAAACAAAA	AGTTTGAATT	GGGTTTGGAG	TTTCCCAATC
421	TTCCTTATTA TATTGA	ATGGT GATGTTAAAT	TAACACAGTC	TATGGCCATC	ATACGTTATA
481	TAGCTGACAA GCACAA	ACATG TTGGGTGGTT	GTCCAAAAGA	GCGTGCAGAG	ATTTCAATGC
541	TTGAAGGAGC GGTTT	GGAT ATTAGATACG	GTGTTTCGAG	AATTGCATAT.	AGTAAAGACT
601	TTGAAACTCT CAAAGT	TTGAT TTTCTTAGCA	AGCTACCTGA	AATGCTGAAA	ATGTTCGAAG
661	ATCGTTTATG TCATA	AAACA TATTTAAATG	GTGATCATGT	AACCCATCCT	GACTTCATGT
721	TGTATGACGC TCTTGA	ATGTT GTTTTATACA	TGGACCCAAT	GTGCCTGGAT	GCGTTCCCAA
781	AATTAGTTTG TTTTAA	AAAA CGTATTGAAG	CTATCCCACA	AATTGATAAG	TACTTGAAAT
841	CCAGCAAGTA TATAGO	CATGG · CCTTTGCAGG	GCTGGCAAGC	CACGTTTGGT	GGTGGCGACC
901	ATCCTCCAAA ATCGGA	TCTG ATCGAAGGTC	GTGGGATCCC	CAGGAATTCC	ATGAGTGAGG
961	CCCGCAGGGA CAGCAC	GAGC AGCCTGCAGC	GCAAGAAGCC	ACCCTGGCTA	AAGCTGGACA
1021	TTCCCTCTGC GGTGCC	CCTG ACGGCAGAAG	AGCCCAGCTT	CCTGCAGCCC	CTGAGGCGAC
1081	AGGCTTTCCT GAGGAG	STGTG AGTATGCCAG	CCGAGACAGC	CCACATCTCT	TCACCCCACC
1141	ATGAGCTCCG GCGGCC	GGTG CTGCAACGCC	AGACGTCCAT	CACACAGACC	ATCCGCAGGG
1201	GGACCGCCGA CTGGTT	TGGA GTGAGCAAGG	ACAGTGACAG	CACCCAGAAA	TGGCAGCGCA
1261	AGAGCATCCG TCACTO				
1321	TGGACCTGCC CAGCCA				
1381	ACGTGGGGCC ATGCCA				
1441	CCTTCCGTGT GGCAGA				
1501	CGGGTGCTGC CTCCCT	CTGC TCCTTCTCCA	GCTCCCGCTC	AGGTTTCCAC	CGGCTCCCGC
1561	GGCGGCGCAA GCGAGA	GTCG GTGGCCAAGA	TGAGCTTCCG	GGCGGCCGCA	GCGCTGATGA
1621	· ·				
1681	CTAGCTTTCT GGAGGA	AGGAC ACAACTGATT	TCCCCGATGA	GCTGGACACA	TCCTTCTTTG
1741	CCCGGGAAGG TATCCT				•
1801	CATCGGAGGC AGCGCT	'AAAG GACTGGGAGA	AGGCACCGGA	GCAGGCGGAC	CTCACCGGCG
1861	GGGCCCTGGA CCGCAG				
1921	GGCGGAAGCA GAAGGA	GGGC GCCGCAGCCC	CGCAGCCCAA	GGTGCGGCTC	CGACAGGAGG
1981	TGGTGAGCAC CGCGGG	GCCG CGACGGGGCC	AGCGTATCGC	GGTGCCGGTG	CGCAAGCTCT.
2041	TCGCCCGGGA GAAGCG	GCCG TATGGGCTGG	GCATGGTGGG	ACGGCTCACC	AACCGCACCT
2101	ACCGCAAGCG CATCGA	CAGC TTCGTCAAGC	GCCAGATCGA	GGACATGGAC	GACCACAGGC

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		**: * *:					
	2161	CCTTCTTCAC	CTACTGGCTT	ACCTTCGTGC	ACTCGCTCGT	CACCATCCTA	GCCGTGTGCA
	2221	TCTATGGCAT	CGCGCCCGTG	GGCTTCTCGC	AGCATGAGAC	GGTGGACTCG	GTGCTGCGGA
	2281	ACCGCGGGGT	CTACGAGAAC	GTCAAGTACG	TGCAGCAGGA	GAACTTCTGG	ATCGGGCCCA
	2341	GCTCGGAGGC	CCTCATCCAC	CTGGGCGCCA	AGTTTTCGCC	CTGCATGCGC	CAGGACCCGC
	2401	AGGTGCACAG	CTTCATTCGC	TCGGCGCGCG	AGCGCGAGAA	GCACTCCGCC	TGCTGCGTGC
	2461	GCAACGACAG	GTCGGGCTGC	GTGCAGACCT	CGGAGGAGGA	GTGCTCGTCC	ACGCTGGCAG
,	2521	${\tt TGTGGGTGAA}$	GTGGCCCATC	CATCCCAGCG	CCCCAGAGCT	TGCGGGCCAC	AAGAGACAGT
	2581	TTGGCTCTGT	CTGCCACCAG	GATCCCAGGT	GAGTCGACTC	GAGCGGCCGC	ATCGTGACTG
	2641					AACCTCTGAC	
	2701	CCCGGAGACG	GTCACAGCTT	GTCTGTAAGC	GGATGCCGGG	AGCAGACAAG	CCCGTCAGGG
	2761					ACCCAGTCAC	
	2821	CGGAGTGTAT	AATTCTTGAA	GACGAAAGGG	CCTCGTGATA	CGCCTATTTT	TATAGGTTAA
	2881	TGTCATGATA	ATAATGGTTT	CTTAGACGTC	AGGTGGCACT	TTTCGGGGAA	ATGTGCGCGG
	2941	AACCCCTATT	TGTTTATTTT	TCTAAATACA	TTCAAATATG	TATCCGCTCA	TGAGACAATA
	3001					ATGAGTATTC	
	3061					GTTTTTGCTC	
	3121					CGAGTGGGTT	
	3181	GGATCTCAAC	AGCGGTAAGA	TCCTTGAGAG	TTTTCGCCCC	GAAGAACGTT	TTCCAATGAT
	3241	GAGCACTTTT	AAAGTTCTGC	TATGTGGCGC	GGTATTATCC	CGTGTTGACG	CCGGGCAAGA
	3301					GTTGAGTACT	
	3361					TGCAGTGCTG	
	3421					GGAGGACCGA	
	3481					GATCGTTGGG	
	3541					CCTGCAGCAA	
	3601						AATTAATAGA
	3661					TCGGCCCTTC	
	3721					CGCGGTATCA	
	3781					ACGACGGGGA	
	3841					TCACTGATTA	•
	3901					TTAAAACTTC	
	3961					ACCAAAATCC	
	4021					AAAGGATCTT	
	4081					CCACCGCTAC	
	4141					GTAACTGGCT	
	4201					GGCCACCACT	
	4261					CCAGTGGCTG	
	4321	CGATAAGTCG	TGTCTTACCG	GGTTGGACTC	AAGACGATAG	TTACCGGATA	AGGCGCAGCG

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				• •		
4381	GTCGGGCTGA	ACGGGGGGTT	CGTGCACACA	GCCCAGCTTG	GAGCGAACGA	CCTACACCGA
4441	ACTGAGATAC	CTACAGCGTG	AGCTATGAGA	AAGCGCCACG	CTTCCCGAAG	GGAGAAAGGC
4501	GGACAGGTAT	CCGGTAAGCG	GCAGGGTCGG	AACAGGAGAG	CGCACGAGGG	AGCTTCCAGG
4561	GGGAAACGCC	TGGTATCTTT	ATAGTCCTGT	CGGGTTTCGC	CACCTCTGAC	TTGAGCGTCG
4621	ATTTTTGTGA	TGCTCGTCAG	GGGGGCGGAG	CCTATGGAAA	AACGCCAGCA	ACGCGGCCTT
4681	TTTACGGTTC	CTGGCCTTTT	GCTGGCCTTT	TGCTCACATG	TTCTTTCCTG	CGTTATCCCC
4741	TGATTCTGTG	GATAACCGTA	TTACCGCCTT	TGAGTGAGCT	GATACCGCTC	GCCGCAGCCG
4801	AACGACCGAG	CGCAGCGAGT	CAGTGAGCGA	GGAAGCGGAA	GAGCGCCTGA	TGCGGTATTT
4861				CCGCATAAAT		
4921	CAAAACCTTT	CGCGGTATGG	CATGATAGCG	CCCGGAAGAG	AGTCAATTCA	GGGTGGTGAA
4981	TGTGAAACCA	GTAACGTTAT	ACGATGTCGC	AGAGTATGCC	GGTGTCTCTT	ATCAGACCGT
5041	TTCCCGCGTG	GTGAACCAGG	CCAGCCACGT	TTCTGCGAAA	ACGCGGGAAA	AAGTGGAAGC
5101	GGCGATGGCG	GAGCTGAATT	ACATTCCCAA	CCGCGTGGCA	CAACAACTGG	CGGGCAAACA
5161	GTCGTTGCTG	ATTGGCGTTG	CCACCTCCAG	TCTGGCCCTG	CACGCGCCGT	CGCAAATTGT
5221	CGCGGCGATT	AAATCTCGCG	CCGATCAACT	GGGTGCCAGC	GTGGTGGTGT	CGATGGTAGA
5281	ACGAAGCGGC	GTCGAAGCCT	GTAAAGCGGC	GGTGCACAAT	CTTCTCGCGC	AACGCGTCAG
5341	TGGGCTGATC	ATTAACTATC	CGCTGGATGA	CCAGGATGCC	ATTGCTGTGG	AAGCTGCCTG
5401	CACTAATGTT	CCGGCGTTAT	TTCTTGATGT	CTCTGACCAG	ACACCCATCA	ACAGTATTAT
5461	TTTCTCCCAT	GAAGACGGTA	CGCGACTGGG	CGTGGAGCAT	CTGGTCGCAT	TGGGTCACCA
5521	GCAAATCGCG	CTGTTAGCGG	GCCCATTAAG	TTCTGTCTCG	GCGCGTCTGC	GTCTGGCTGG
5581				TCAGCCGATA		
5641				GCAAATGCTG		
5701				GCTGGGCGCA		
5761				AGTGGGATAC		
5821				ACAGGATTTT		
5881				CCAGGCGGTG		
5941				GGCGCCCAAT		
6001				ACGACAGGTT		
6061				TCACTCATTA		
6121				TTGTGAGCGG		
6181				GCCGTCGTTT		
6241	AACCCTGGCG	TTACCCAACT	TAATCGCCTT	GCAGCACATC	CCCCTTTCGC	CAGCTGGCGT

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6301	AATAGCGAAG AGGCCCG	CAC CGATCGCCCT	TCCCAACAGT	TGCGCAGCCT	GAATGGCGAA
6361	TGGCGCTTTG CCTGGTT	TCC GGCACCAGAA	GCGGTGCCGG	AAAGCTGGCT	GGAGTGCGAT
6421	CTTCCTGAGG CCGATAC	TGT CGTCGTCCCC	TCAAACTGGC	AGATGCACGG	TTACGATGCG
6481	CCCATCTACA CCAACGT	AAC CTATCCCATT	ACGGTCAATC	CGCCGTTTGT	TCCCACGGAG
6541	AATCCGACGG GTTGTTA	CTC GCTCACATTT	AATGTTGATG	AAAGCTGGCT	ACAGGAAGGC
	CAGACGCGAA TTATTTT				

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Agent: Alla Brukman Reg. No. 61,254
Express Mail Label No.: EM125015763US

ID NO:64) C	oding regio	n for the C	terminus 3	75 aa: 945-2	2069
AGCTTATCGA	CTGCACGGTG	CACCAATGCT	TCTGGCGTCA	GGCAGCCATC	GGAAGCTGTG
TCTGGATAAT	GTTTTTTGCG	CCGACATCAT	AACGGTTCTG	GCAAATATTC	TGAAATGAGC
TGTTGACAAT	TAATCATCGG	CTCGTATAAT	GTGTGGAATT	GTGAGCGGAT	AACAATTTCA
CACAGGAAAC	AGTATTCATG	TCCCCTATAC	TAGGTTATTG	GAAAATTAAG	GGCCTTGTGC
TAGCTGACAA	GCACAACATG	TTGGGTGGTT	GTCCAAAAGA	GCGTGCAGAG	ATTTCAATGC
TTGAAACTCT	CAAAGTTGAT	TTTCTTAGCA	AGCTACCTGA	AATGCTGAAA	ATGTTCGAAG
ATCGTTTATG	TCATAAAACA	TATTTAAATG	GTGATCATGT	AACCCATCCT	GACTTCATGT
TGTATGACGC	TCTTGATGTT	GTTTTATACA	TGGACCCAAT	GTGCCTGGAT	GCGTTCCCAA
AATTAGTTTG	TTTTAAAAAA	CGTATTGAAG	CTATCCCACA	AATTGATAAG	TACTTGAAAT
GGTCGGGCTG	CGTGCAGACC	TCGGAGGAGG	AGTGCTCGTC	CACGCTGGCA	GTGTGGGTGA
AGTGGCCCAT	CCATCCCAGC	GCCCCAGAGC	TTGCGGGCCA	CAAGAGACAG	TTTGGCTCTG
GACGATCTGC	CTCGCGCGTT	TCGGTGATGA	CGGTGAAAAC	CTCTGACACA	TGCAGCTCCC
	AGCTTATCGA GTATGGCTGT TCTGGATAAT TGTTGACAAT CACAGGAAAC AACCCACTCG GCGATGAAGG TTCCTTATTA TAGCTGACAA TTGAAGGAGC TTGAAACTCT ATCGTTTATG CCAGCAAGTA ATCCTCCAAA GCTTCATTCG GGTCGGGCTG AGTGGCCCAT TCTGCCACAT TCTGCCACAT GTGAGATCAC CAGAAGACAT ATCCCCACAT GTGAGATCAC CAGACTGCCT CCGAGGTGCC TGCACTGCTC CCGAGGTGCC TGCACTGCTT TGGCCTGCTC CAGGCTGGCA TTGACACTT TTGACAACTT TTGCCTTCAA TTGACAACTT TTGCCCTACAT TTCAGGTGGT TCCGCTGTGA AGTACGAACT	AGCTTATCGA CTGCACGGTG GTATGGCTGT GCAGGTCGTA TCTGGATAAT GTTTTTTGCG TGTTGACAAT TAATCATCGG CACAGGAAAC AGTATTCATG AACCCACTCG ACTTCTTTG GCGATGAAGG TGATAAATGG TTCCTTATTA TATTGATGGT TAGCTGACAA GCACAACATG TTGAAGGAGC GGTTTTGGAT ATCGTTTATG TCATAAAACA TGTATGACGC TCTTGATGTT AATTAGTTTG TTTTAAAAAA CCAGCAAGTA TATAGCATGG ATCCTCCAAA ATCGGATCTG GCTTCATTCG CTCGGCGCGC GGTCGGGCTG CGTGCAGACC AGTGGCCCAT CCATCCCAGC TCTGCCACCA GGATCCCAGG CAGAAGACAT CACCAAGTGG ATCCCCACAT GGACTGTGTC GTGAGATCAC CTCCCGGGAG CGCTCTGCTC TCAGGTGCAC CCGAGGTGCC TGACCAGTTC TGCACTGCCT GGTGTCCATC CAGGCTGGCA CCGCATAGCC CTGCCTGCCT CTCGTGGAG CCTTCTTCAA GCTGCTGCT TGGCCTGCCT CTTCGTGGAG CCTTCTTCAA GCTGCTGGCT TTGACAACTT TGCCCACATC TGCCCTACAT CAGCTTTGGC TTGACCACTT CAGCTTTGGC TTCAGGTGGT CTTCCTGGGC TTCAGGTGGT CTTCCTGGGC TTCAGGTGGT CTTCCTGGGC TTCAGGTGGT CTTCCTGGGC TTCAGGTGGT CTTCCTGGCC TTCAGGTGGT CTTCCTGGGC TCCGCTGTGA GTGGTGTGAG AGTACGAACT GGACGCTCAG	GCTTATCGA CTGCACGGTG CACCAATGCT GTATGGCTGT GCAGGTCGTA AATCACTGCA TCTGGATAAT GTTTTTTGCG CCGACATCAT TGTTGACAAT TAATCATCGG CTCGTATAAT CACAGGAAAC AGTATTCATG TCCCCTATAC AACCCACTCG ACTTCTTTTG GAATATCTTG GCGATGAAGG TGATAAATGG CGAAACAAAA TTCCTTATTA TATTGATGGT GATGTTAAAT TAGCTGACAA GCACAACATG TTGGGTGGTT TTGAAAGCTCT CAAAGTTGAT TTTCTTAGCA ATCGTTTATG TCATAAAACA TATTTAAATG TGTATGACGC TCTTGATGTT GTTTTATACA AATTAGTTTG TCATAAAAAA CGTATTGAAG CCAGCAAGTA TATAGCATGG CCTTTGCAGG ATCCTCCAAA ATCGGATCTG ATCGAAGGTC GCTTCATTCG CTCGGCGCG GAGCGCGAGA GGTCGGGCTG CGTGCAGACC TCGGAGGAGG GGTCGGGCCA CCACCAAGGC CCCCCAGAGC TCTGCCACCA GGATCCCAGG GTGTGTGATG CCGAGAGACAT CACCAAGTGG CCGATCTGCA ATCCCCACCA GGATCCCAGG GTGTGTGATG CCGAGGTGCC TCACCAGG TACTGCAC GTGAGATCAC CACCAAGTGG CCGATCTGCA ATCCCCACAT GGACTGTGC ATCACAGGAC CCGAGGTGCC TGACCAGTC TGCATGGATG CCGAGGTGCC TCAGGGTCCAGAC TGCATGGATG CCGAGGTGCC TGACCAGTC TGCATGGATG CCGAGGTGCC TGACCAGTC TGCATGGATG CCGAGGTGCC TGACCAGTC TGCATGGATG CCGAGGTGCC TCCCGGGAG CTCTTCCAGA CCTTCTTCAA GCTGCCATAC CGAGCAGAGG CCTTCTTCAA GCTGCCATAC CGAGCAGAGG TGGCCTGCCT CTTCGTGGAG CTCTTCCAGA CCTTCTTCAA GCTGCTGCT TCCGGGGTTCA TGCCCTACAT TGCCCACATC TCGGGGTTCA TGGCCTGCCT CTTCGTGGAG CTCTTCCAGA CCTTCTTCAA GCTGCTGGC TTCCTGGCC TTCAGGTGGT CTTCCTGGCC CTCCTGGCTG TCCGCTGGAACTT TGCCCACATC TCGGGGTTCA TGCCCTACAT CAGCTTTGGC AAGTTCGACC TTCAGGTGGT CTTCCTGGGC CTCCTTGGCTG TCCGCTGGAACCT TTCCTGGGC CTCCTTCGCTG TCCGCTGGAACCT TGCCCACTC TCCGGGGTTCA AGGTCGGACCTGGC CTCCTGGCTG TCCGCTGGAACCT TGCCCACTGAC CTTCTTCAA GCTGTGGAG CTCCTCCACCT TCAGGTGGT CTTCCTGGGC CTCCTGGCTG TCCGCTGGAACCT GGACCCTCGAC TCCCCTGGCT GTCCCACTGAC CTCCCTGGCT GCTCCACTGAC CTCCCTGGCT GTCCCACTGAC CTCCTGGCAC CTCCTGGCTG TCCGCTGGAC GTGGTGTCCAC AGGTTCCACCT TCCGCTGGAG CTCCTCCACCT TCCGCCTGGCT GTCCCACTGAC CTCCCTGGCT GTCCCACTGAC CTCCCTGGCT GTCCCACTGAC CTCCCTGGCT GTCCCACTGAC CTCCCTGGCT GTCCCACTGAC CTCCCTGGCT GTCCCCTCCCCTGACT TCAGGTGGT CTTCCTCACCT AGGCCTGCAC GGACACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CTCCCACACC CCCCACACC CCCCACACC CCCCACACC CCCCCACACC CCCCCACA	GCTTATCGA CTGCACGGTG CACCAATGCT TCTGGGTCA GTATGGCTGT GCAGGTCGTA AATCACTGCA TAATTCGTGT TCTGGATAAT GTTTTTTGCG CCGACATCAT AACGGTTCTG TGTTGACAAT TAATCATCGG CTCGTATAAT GTGTGGAATT CACAGGAAAC AGTATTCATG TCCCCTATAC TAGGTTATTG AACCCACTCG ACTTCTTTTG GAATATCTG AAGAAAAATA GCGATGAAGG TGATAAATGG CGAAACAAAA AGTTTGAATT TTCCTTATTA TATTGATGGT GATGTTAAAT TAACACAGTC TAGCTGACAA GCACAACAG TTGGGTGGTT GTCCAAAAGA TTGAAGGACC GGTTTTGGAT ATTAGATACG GTGTTCGAG TTGAAACTCT CAAAGTTGAT TTTCTTAGCA AGCTACCTGA ATCGTTTATG TCATAAAACA TATTTAAATG GTGATCATGT TGTATGACGC TCTTGATGTT GTTTTATACA TGGACCCAAT AATTAGTTTG TTTTAAAAAA CGTATTGAAG CTACCCCAA AACCAGCAAGATA TATAGCATGG CCTTTCCAGG GCTGGCAAGC ATCCTCCAAA ATCGGATCTG ATCGAAGGTC GTGGGATCCC GGTCGGGCTG CCTGCCAGCC TCGGAGGAG AGCACTCCGC GGTCGGCCAG CCCCAAGAC TTGCGGGCCAA ACCACCACGC GCCCCAGAGC TTGCGGGCCAA ACCCACCACA GGATCCCAG GCCCCAGAGC TTGCGGGCCAA ACCCACCACG GCCCCAGAGC TTGCGGGCCAA ACCCACACTG CCACCACACG GCCCCAGAGC TTGCGGGCCAA ACCCACACTG GCATCCCCC CAGAAGACAT CACCAAGTGG CGCCCAGAGC TTCCGGGGCCA ACCCACCAC GCATCCCCC CCACAGC TTCCAGAGGGG GCCCTCCTC CAGAAGACAT CACCAAGTGG CGCCCAGAC TCCATCCCC CAGAAGACAT CACCAAGTGC TTCACAGGAC GCCCCTGCTG GCGCTCGCTC TCCCGGGGG TACTGTGAC TCATGAGGGG CCGCTCTGCTC TCCCGGGGG TACTGTGACT TCATGAGGGG CCGCTCTGCTC TCCCGGGGG TACTGTGAC TCATGAGGGG CCGCTTGCTC TCCGGCGAG CTCTCCAGA GCTGCTCCCT CAGGCTGCC TCCCGCGGG CTCTCCAGA GCTGCCCTGC TGCACTGCC TCCGCCATACC TGCATCACC TGCTCAGCT TCGCCCTCCT CCTCCGGGG CTCTTCCAGA GCTGCCCTT TCGCCCTCCT CTCCGGGGG CTCTTCCAGA GCTGCCCTT TCGCCCTCCT CTCCGGGGG CTCTTCCAGA GCTGCCCTT TCGCCCTACAT CCTCCTGGGC CTCCTCCCCT TGCCCTACAT CCTCCTGGGC CTCCTCCGC TTCCTCTCAA CCTCCTGGCC TGCATGCC TTCCCTCTCC TGCCCTACAT CCGCCTGC TGCCTGCT TCCTCTCCC TGCCCTGCTG CTCCCCTT TCCCTGGCC TGCCCCTT TCCCCCTTCTCAG GCCCTCTCTCCCC TGCCCCTT TCCCCCTACAT CCGCCTGGC CTCCCCCTT TCCCCCTACAT CCGCCTGGC CTCCCCCTT TCCCCCTACAT GGCCCTCACC CCCCCTTGCCCCTT TCCCCCTTCTCGC CTCCCCTGGC CCCCCCTTCTCCCCT TCCCCCTACAT GGCCCTCACCC TGCA	ID NO:64) Coding region for the C terminus 375 aa: 945- AGCTTATCGA CTGCACGGTG CACCAATGCT TCTGGCGTCA GGCAGCCATC GTATGGCTGT GCAGGTCGTA AATCACTGCA TAATTCGTGT CGCTCAAGGC TCTGGATAAT GTTTTTTGCG CTGCACATCAT AACGGTTCTG GCAAATATTC TGTTGACAAT TAATCATCGG CTCGTATAAT GTGTGGAATT GTGAGCGGAT CACAGGAAAC AGTATTCATG TCCCCTATAC TAGGTTATTG GAAAATTAAG AACCCACTGG ACTTCTTTTG GAATATCTG AAGAAAAAA TGGAAGGCAT GCGATGAAGG TGATAAATGG CGAAACAAAA AGTTTCAATT GGAGTTGGAG TTCCTTATTA TATTGATGGT GATGTTAAAT TAACACAGTC TATGGCCATC TAGGTGACAA GCACACATG TTGGGTGGTT TGAAACACTC CAAAGTTGAT TTTCTTAGCA AGCTACTGA AATGCGATAT TTGAAACTCT CAAAGTTGAT TTTCTTAGCA AGCTACCTGA AATGCATAT TTGAAACTCT CAAAGTTGAT TTTCTTAGCA AGCTACCTGA AATGCATAT TTGAAACTCT CAAAAACA TATTTAAATG GTGATCATGT AACCCATCCT TGTATGACGC TCTTGATGTT GTTTTATACA TGGACCCAAT GTGCCTGGAT AATTAGTTTG TTTTAAAAAAA CGTATTGAAG CCACCACAA ATTGGATTCC GCTTCATTCC CTCGGCGCGC GAGCGCGAGA AGCACTCCG CAGGAATCCC GCTCCAAAAA ATCGGATCTG ATCGAAGGTC GTGGGATCCC GCTCCAACA ATCGGATCTG ATCGAAGGTC GTGGGATCCC GCTCCAACA ATCGGATCTG ATCGAAGGTC GTGGGATCCC GCTCCACAC GAGCCCCAAGC TTGCGAGGA AGCACTCCGC CAGGAATCC GCTCCACCA GATCCCACG GCCCCACAGC TTGCGGGCA ACCACTCGC CAGGAATCC GCTCGCACCA GGATCCCAGG GTGGGAGA AGCACTCCGC CAGGAATCC CCAGCAAGAA CACCACAGG CCCCCACAGC TTGCGGGCA ACCACCACCAC ACTCCCCACA GGATCCCAGG GTGTGTGATG AGCCCTCCTC CGAAGACCCC CAGAAGACCAT CACCAAGTGG CCCCCACAGC TTCGGGGCCA CAACAGACCAC TCTGCCACCA GGATCCCAGG GTGTGTGAT CCCTCCTC CGAAGACCCT CCGGAGTCCC TCACCCAGG TACTGTGAC TCATGCACCC CCGAAGACCAT TCACCAGGAC TCCGCTGCCTC CAAAAACAG GCCCCCCCCCC

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Application No.: 10/551,667 Filed: July 18, 20
Confirmation No.: 5623
For: TARGETS FOR TUMOR GROWTH INHIBITION
Agent: Alla Brukman Reg. No. 61,254
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2161	GGAGACGGTC	ACAGCTTGTC	TGTAAGCGGA	TGCCGGGAGC	AGACAAGCCC	GTCAGGGCGC
2221	GTCAGCGGGT	GTTGGCGGGT	GTCGGGGCGC	AGCCATGACC	CAGTCACGTA	GCGATAGCGG
2281	AGTGTATAAT	TCTTGAAGAC	GAAAGGGCCT	CGTGATACGC	CTATTTTAT	AGGTTAATGT
2341	CATGATAATA	ATGGTTTCTT	AGACGTCAGG	TGGCACTTTT	CGGGGAAATG	TGCGCGGAAC
2401	CCCTATTTGT	TTATTTTTCT	AAATACATTC	AAATATGTAT	CCGCTCATGA	GACAATAACC
2461	CTGATAAATG	CTTCAATAAT	ATTGAAAAAG	GAAGAGTATG	AGTATTCAAC	ATTTCCGTGT
2521	CGCCCTTATT	CCCTTTTTTG	${\tt CGGCATTTTG}$	CCTTCCTGTT	TTTGCTCACC	CAGAAACGCT
2581	GGTGAAAGTA	AAAGATGCTG	AAGATCAGTT	GGGTGCACGA	GTGGGTTACA	TCGAACTGGA
2641	TCTCAACAGC	GGTAAGATCC	TTGAGAGTTT	TCGCCCGAA	GAACGTTTTC	CAATGATGAG
2701	CACTTTTAAA	GTTCTGCTAT	GTGGCGCGGT	ATTATCCCGT	GTTGACGCCG	GGCAAGAGCA
2761	ACTCGGTCGC	CGCATACACT	ATTCTCAGAA	TGACTTGGTT	GAGTACTCAC	CAGTCACAGA
2821	AAAGCATCTT	ACGGATGGCA	TGACAGTAAG	AGAATTATGC	AGTGCTGCCA	TAACCATGAG
2881	TGATAACACT	GCGGCCAACT	TACTTCTGAC	AACGATCGGA	GGACCGAAGG	AGCTAACCGC
2941	TTTTTTGCAC	AACATGGGGG	ATCATGTAAC	TCGCCTTGAT	CGTTGGGAAC	CGGAGCTGAA
3001	TGAAGCCATA	CCAAACGACG	AGCGTGACAC	CACGATGCCT	GCAGCAATGG	CAACAACGTT
3061				TCTAGCTTCC		
3121		and the second s				CTGGCTGGTT
3181				TGGGTCTCGC		
3241						AGGCAACTAT
3301				AGGTGCCTCA		
3361				GATTGATTTA		
3421				TCTCATGACC		
3481				AAAGATCAAA		
3541				AAAAAAACCA		
3601						GCAGAGCGCA
3661				GTAGTTAGGC		
3721						CCAGTGGCGA
3781						CGCAGCGGTC
3841					*	ACACCGAACT
.3901						GAAAGGCGGA
3961						TTCCAGGGGG
4021				GTTTCGCCAC		
4081						CGGCCTTTTT
4141						TATCCCCTGA
4201						GCAGCCGAAC
4261						GGTATTTTCT
4321	CCTTACGCAT	CTGTGCGGTA	TTTCACACCG	CATAAATTCC	GACACCATCG	AATGGTGCAA

Applicants: Patrick Y. Lu et al. Docket No.: INTM/017
Application No.: 10/551,667 Filed: July 18, 20
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For: TARGETS FOR TUMOR GROWTH INHIBITION
Agent: Alla Brukman Reg. No. 61,254
Express Mail Label No.: EM125015763US Filed: July 18, 2006

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4381	AACCTTTCGC	GGTATGGCAT	GATAGCGCCC	GGAAGAGAGT	CAATTCAGGG	TGGTGAATGT
4441	GAAACCAGTA	ACGTTATACG	ATGTCGCAGA	GTATGCCGGT	GTCTCTTATC	AGACCGTTTC
4501	CEGEGTGGTG	AACCAGGCCA	GCCACGTTTC	TGCGAAAACG	CGGGAAAAAG	TGGAAGCGGC
4561	GATGGCGGAG	CTGAATTACA	TTCCCAACCG	CGTGGCACAA	CAACTGGCGG	GCAAACAGTC
4621	•				GCGCCGTCGC	
4681	GGCGATTAAA	TCTCGCGCCG	ATCAACTGGG	TGCCAGCGTG	GTGGTGTCGA.	TGGTAGAACG
4741	AAGCGGCGTC	GAAGCCTGTA	AAGCGGCGGT	GCACAATCTT	CTCGCGCAAC	GCGTCAGTGG
4801	GCTGATCATT	AACTATCCGC	TGGATGACCA	GGATGCCATT	GCTGTGGAAG	CTGCCTGCAC
4861					CCCATCAACA	
4921	CTCCCATGAA	GACGGTACGC	GACTGGGCGT	GGAGCATCTG	GTCGCATTGG	GTCACCAGCA
4981					CGTCTGCGTC	
5041	GCATAAATAT	CTCACTCGCA	ATCAAATTCA	GCCGATAGCG	GAACGGGAAG	GCGACTGGAG
5101					GAGGGCATCG	
5161	GATGCTGGTT	GCCAACGATC	AGATGGCGCT	GGGCGCAATG	CGCGCCATTA	CCGAGTCCGG
5221	GCTGCGCGTT	GGTGCGGATA	TCTCGGTAGT	GGGATACGAC	GATACCGAAG	ACAGCTCATG
5281	TTATATCCCG	CCGTTAACCA	CCATCAAACA	GGATTTTCGC	CTGCTGGGGC	AAACCAGCGT
5341	GGACCGCTTG	CTGCAACTCT	CTCAGGGCCA	GGCGGTGAAG	GGCAATCAGC	TGTTGCCCGT
5401	CTCACTGGTG	AAAAGAAAA	CCACCCTGGC	GCCCAATACG	CAAACCGCCT	CTCCCCGCGC
5461					CGACTGGAAA	
5521					ACCCCAGGCT	
5581					ACAATTTCAC	
5641			· ·		AACGTCGTGA	
5701				*	CTTTCGCCAG	
5761					GCAGCCTGAA	
5821	CGCTTTGCCT	GGTTTCCGGC	ACCAGAAGCG	GTGCCGGAAA	GCTGGCTGGA	GTGCGATCTT
5881					TGCACGGTTA	
5941					CGTTTGTTCC	
6001				GTTGATGAAA	GCTGGCTACA	GGAAGGCCAG
6061	ACGCGAATTA	TTTTTGATGG	CGTTGGAATT			

Applicants: Patrick Y. Lu et al. Docket No.: INTM/017
Application No.: 10/551 667

Application No.: 10/551,667 Filed: July 18, 2006 Confirmation No.: 5623

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Agent: Alla Brukman Reg. No. 61,254 Sheet 34 of 48

Agent: Alla Brukman Reg. No. 61,254 Express Mail Label No.: EM125015763US

REPLACEMENT SHEET

(SEQ ID NO:66) ICT1024 coding region: 310-2879 TAATACGACT CACTATAGGG GAATTGTGAG CGGATAACAA TTCCCCTCTA GACTTACAAT 61 TTCCATTCGC CATTCAGGCT GCGCAACTGT TGGGAAGGGC GATCGGTACG GGCCTCTTCG CTATTACGCC AGCTTGCGAA CGGTGGGTGC GCTGCAAGGC GATTAAGTTG GGTAACGCCA 121 GGATTCTCCC AGTCACGACG TTGTAAAACG ACGGCCAGCG AGAGATCTTG ATTGGCTAGC 181 AGAATAATTT TGTTTAACTT TAAGAAGGAG ATATACCATG GCGATATCCC GGGAGCTCGT 241 GGATCCGAAT TCCATGAGTG AGGCCCGCAG GGACAGCACG AGCAGCCTGC AGCGCAAGAA 301 361 GCCACCCTGG CTAAAGCTGG ACATTCCCTC TGCGGTGCCC CTGACGGCAG AAGAGCCCAG 421 CTTCCTGCAG CCCCTGAGGC GACAGGCTTT CCTGAGGAGT GTGAGTATGC CAGCCGAGAC AGCCCACATC TCTTCACCCC ACCATGAGCT CCGGCGGCCG GTGCTGCAAC GCCAGACGTC 481 CATCACACA ACCATCCGCA GGGGGACCGC CGACTGGTTT GGAGTGAGCA AGGACAGTGA 541 CAGCACCCAG AAATGGCAGC GCAAGAGCAT CCGTCACTGC AGCCAGCGCT ACGGGAAGCT 601 GAAGCCCCAG GTCCTCCGGG AGCTGGACCT GCCCAGCCAG GACAACGTGT CGCTGACCAG 661 721 CACCGAGACG CCACCCCCAC TCTACGTGGG GCCATGCCAG CTGGGCATGC AGAAGATCAT AGACCCCCTG GCCCGTGGCC GTGCCTTCCG TGTGGCAGAT GACACTGCGG AAGGCCTGAG 781 TGCCCCACAC ACTCCCGTCA CGCCGGGTGC TGCCTCCCTC TGCTCCTTCT CCAGCTCCCG 841 CTCAGGTTTC CACCGGCTCC CGCGGCGGCG CAAGCGAGAG TCGGTGGCCA AGATGAGCTT 901 CCGGGCGCC GCAGCGCTGA TGAAAGGCCG CTCCGTTAGG GATGGCACCT TTCGCCGGGC 961 ACGGCGTCGA AGCTTCACTC CAGCTAGCTT TCTGGAGGAG GACACAACTG ATTTCCCCGA 1021 TGAGCTGGAC ACATCCTTCT TTGCCCGGGA AGGTATCCTC CATGAAGAGC TGTCCACATA 1081 CCCGGATGAA GTTTTCGAGT CCCCATCGGA GGCAGCGCTA AAGGACTGGG AGAAGGCACC 1141 1201 GGAGCAGGC GACCTCACCG GCGGGGCCCT GGACCGCAGC GAGCTTGAGC GCAGCCACCT GATGCTGCCC TTGGAGCGAG GCTGGCGGAA GCAGAAGGAG GGCGCCGCAG CCCCGCAGCC 1261 1321 CAAGGTGCGG CTCCGACAGG AGGTGGTGAG CACCGCGGGG CCGCGACGGG GCCAGCGTAT CGCGGTGCCG GTGCGCAAGC TCTTCGCCCG GGAGAAGCGG CCGTATGGGC TGGGCATGGT 1381 1441 GGGACGGCTC ACCAACCGCA CCTACCGCAA GCGCATCGAC AGCTTCGTCA AGCGCCAGAT CGAGGACATG GACGACCACA GGCCCTTCTT CACCTACTGG CTTACCTTCG TGCACTCGCT 1501 1561 CGTCACCATC CTAGCCGTGT GCATCTATGG CATCGCGCCC GTGGGCTTCT CGCAGCATGA GACGGTGGAC TCGGTGCTGC GGAACCGCGG GGTCTACGAG AACGTCAAGT ACGTGCAGCA 1621 GGAGAACTTC TGGATCGGGC CCAGCTCGGA GGCCCTCATC CACCTGGGCG CCAAGTTTTC 1681 1741 GCCCTGCATG CGCCAGGACC CGCAGGTGCA CAGCTTCATT CGCTCGGCGC GCGAGCGCGA 1801 GAAGCACTCC GCCTGCTGCG TGCGCAACGA CAGGTCGGGC TGCGTGCAGA CCTCGGAGGA 1861 GGAGTGCTCG TCCACGCTGG CAGTGTGGGT GAAGTGGCCC ATCCATCCCA GCGCCCCAGA 1921 GCTTGCGGGC CACAAGAGAC AGTTTGGCTC TGTCTGCCAC CAGGATCCCA GGGTGTGTGA 1981 TGAGCCCTCC TCCGAAGACC CTCATGAGTG GCCAGAAGAC ATCACCAAGT GGCCGATCTG CACCAAAAAC AGCGCTGGGA ACCACCCAA CCATCCCCAC ATGGACTGTG TCATCACAGG 2041 ACGGCCCTGC TGCATTGGCA CCAAGGGCAG GTGTGAGATC ACCTCCCGGG AGTACTGTGA 2101

Filed: July 18, 2006

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Agent: Alla Brukman Reg. No. 61,254
Express Mail Label No.: EM125015763US

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	·			•• •		
2161	CTTCATGAGG	GGCTACTTCC	ATGAGGAGGC	CACGCTCTGC	TCTCAGGTGC	ACTGCATGGA
2221	TGATGTGTGT	GGGCTCCTGC	CTTTTCTCAA	CCCCGAGGTG	CCTGACCAGT	TCTACCGCCT
2281						TCTGCTTCCA
2341					CACCGCATAG	
2401	CCTGCTGAGT	GGTGTCACCG	GCAACCTGGC	CAGTGCCATC	TTCCTGCCAT	ACCGAGCAGA
2461						AGCTCTTCCA
2521	GAGCTGGCAG	ATCCTGGCGC	GGCCCTGGCG	TGCCTTCTTC	AAGCTGCTGG	CTGTGGTGCT
2581	CTTCCTCTTC	ACCTTTGGGC	TGCTGCCGTG	GATTGACAAC	TTTGCCCACA	TCTCGGGGTT
2641	CATCAGTGGC	CTCTTCCTCT	CCTTCGCCTT	CTTGCCCTAC	ATCAGCTTTG	GCAAGTTCGA
2701	CCTGTACCGG	AAACGCTGCC	AGATCATCAT	CTTTCAGGTG	GTCTTCCTGG	GCCTCCTGGC
2761	TGGCCTGGTG	GTCCTCTTCT	ACGTCTATCC	TGTCCGCTGT	GAGTGGTGTG.	AGTTCCTCAC
2821	CTGCATCCCC	TTCACTGACA	AGTTCTGTGA	GAAGTACGAA	CTGGACGCTC	AGCTCCACAT
2881	CGATACGCGT	TCGAAGCTTG	CGGCCGCACA	GCTGTATACA	CGTGCAAGCC	AGCCAGAACT
2941	CGCTCCTGAA	GACCCAGAGG	ATCTCGAGCA	CCACCACCAC	CACCACTAAT	GTTAATTAAG
3001	TTGGGCGTTG	TAATCATAGT	CATAATCAAT	ACTCCTGACT	GCGTTAGCAA	TTTAACTGTG.
3061	ATAAACTACC	GCATTAAAGC	TATTCGATGA	TAAGCTGTCA	AACATGATAA	TTCTTGAAGA
3121	CGAAAGGGCC	TAGGCTGATA	AAACAGAATT	TGCCTGGCGG	CAGTAGCGCG	GTGGTCCCAC
3181	CTGACCCCAT	GCCGAACTCA	GAAGTGAAAC	GCCGTAGCGC	CGATGGTAGT	GTGGGGTCTC
3241	CCCATGCGAG	AGTAGGGAAC	TGCCAGGCAT	CAAATAAAAC	GAAAGGCTCA	GTCGAAAGAC
3301	TGGGCCTTTC	GTTTTATCTG	TTGTTTGTCG	GTGAACGCTC	TCCTGAGTAG	GACAAATCCG
3361	CCGGGAGCGG	ATTTGAACGT	TGCGAAGCAA	CGGCCCGGAG	GGTGGCGGC	AGGACGCCCG
3421	CCATAAACTG	CCAGGCATCA	AATTAAGCAG	AAGGCCATCC	TGACGGATGG	CCTTTTTGCG
3481	TTTCTACAAA	CTCTTTTGTT	TATTTTTCTA	AATACATTCA	AATATGTATC	CGCTGAGCAA
3541	TAACTAGCAT	AACCCCTTGG	GGCCTCTAAA	CGGGTCTTGA	GGGGTTTTTT	GCTGAAAGGA
3601	GGAACTATAT	CCGGATTGGC	GAATGGGACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG
3661	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCCTT
3721	TCGCTTTCTT	CCCTTCCTTT	CTCGCCACGT	TCGCCGGCTT	TCCCCGTCAA	GCTCTAAATC
3781	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG
3841	ATTAGGGTGA	TGGTTCACGT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA
3901	CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCA	AACTGGAACA	ACACTCAACC
3961	CTATCTCGGT	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTCGGCC	TATTGGTTAA
4021	AAAATGAGCT	GATTTAACAA	AAATTTAACG	CGAATTTTAA	СААААТАТТА	ACGTTTACAA
4081	TTTCTGGCGG	.CACGATGGCA	TGAGATTATC	AAAAAGGATC	TTCACCTAGA	TCCTTTTAAA
4141	TTAAAAATGA	AGTTTTAAAT	CAATCTAAAG	TATATATGAG	TAAACTTGGT	CTGACAGTTA
4201	CCAATGCTTA	ATCAGTGAGG	CACCTATCTC	AGCGATCTGT	CTATTTCGTT	CATCCATAGT
4261	TGCCTGACTC	CCCGTCGTGT	AGATAACTAC	GATACGGGAG	GGCTTACCAT	CTGGCCCCAG
4321	TGCTGCAATG	ATACCGCGAG	ACCCACGCTC	ACCGGCTCCA	GATTTATCAG	CAATAAACCA

Applicants: Patrick Y. Lu et al. Application No.: 10/551,667

Docket No.: INTM/017 Filed: July 18, 2006 Confirmation No.: 5623

TARGETS FOR TUMOR GROWTH INHIBITION For: Agent: Alla Brukman Reg. No. 61,254

Express Mail Label No.: EM125015763US

REPLACEMENT SHEET

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4381 GCCAGCCGGA AGGGCCGAGC GCAGAAGTGG TCCTGCAACT TTATCCGCCT CCATCCAGTC 4441 TATTAATTGT TGCCGGGAAG CTAGAGTAAG TAGTTCGCCA GTTAATAGTT TGCGCAACGT 4501 TGTTGCCATT GCTACAGGCA TCGTGGTGTC ACGCTCGTCG TTTGGTATGG CTTCATTCAG CTCCGGTTCC CAACGATCAA GGCGAGTTAC ATGATCCCCC ATGTTGTGCA AAAAAGCGGT 4561 4621 TAGCTCCTTC GGTCCTCCGA TCGTTGTCAG AAGTAAGTTG GCCGCAGTGT TATCACTCAT GGTTATGGCA GCACTGCATA ATTCTCTTAC TGTCATGCCA TCCGTAAGAT GCTTTTCTGT 4681 4741 GACTGGTGAG TACTCAACCA AGTCATTCTG AGAATAGTGT ATGCGGCGAC CGAGTTGCTC TTGCCCGGCG TCAATACGGG ATAATACCGC GCCACATAGC AGAACTTTAA AAGTGCTCAT 4801 CATTGGAAAA CGTTCTTCGG GGCGAAAACT CTCAAGGATC TTACCGCTGT TGAGATCCAG 4861 TTCGATGTAA CCCACTCGTG CACCCAACTG ATCTTCAGCA TCTTTTACTT TCACCAGCGT 4921 TTCTGGGTGA GCAAAAACAG GAAGGCAAAA TGCCGCAAAA AAGGGAATAA GGGCGACACG 4981 GAAATGTTGA ATACTCATAC TCTTCCTTTT TCAATCATGA CCAAAATCCC TTAACGTGAG 5041 5101 TTTTCGTTCC ACTGAGCGTC AGACCCCGTA GAAAAGATCA AAGGATCTTC TTGAGATCCT TTTTTTCTGC GCGTAATCTG CTGCTTGCAA ACAAAAAAC CACCGCTACC AGCGGTGGTT 5161 TGTTTGCCGG ATCAAGAGCT ACCAACTCTT TTTCCGAAGG TAACTGGCTT CAGCAGAGCG 5221 CAGATACCAA ATACTGTCCT TCTAGTGTAG CCGTAGTTAG GCCACCACTT CAAGAACTCT 5281 GTAGCACCGC CTACATACCT CGCTCTGCTA ATCCTGTTAC CAGTGGCTGC TGCCAGTGGC 5341 GATAAGTCGT GTCTTACCGG GTTGGACTCA AGACGATAGT TACCGGATAA GGCGCAGCGG 5401 TCGGGCTGAA CGGGGGGTTC GTGCACACAG CCCAGCTTGG AGCGAACGAC CTACACCGAA 5461 CTGAGATACC TACAGCGTGA GCTATGAGAA AGCGCCACGC TTCCCGAAGG GAGAAAGGCG 5521 GACAGGTATC CGGTAAGCGG CAGGGTCGGA ACAGGAGAGC GCACGAGGGA GCTTCCAGGG 5581 5641 GGAAACGCCT GGTATCTTTA TAGTCCTGTC GGGTTTCGCC ACCTCTGACT TGAGCGTCGA TTTTTGTGAT GCTCGTCAGG GGGGCGGAGC CTATGGAAAA ACGCCAGCAA CGCGGCCTTT 5701 TTACGGTTCC TGGCCTTTTG CTGGCCTTTT GCTCACATGT TCTTTCCTGC GTTATCCCCT 5761 GATTCTGTGG ATAACCGTAT TACCGCCTTT GAGTGAGCTG ATACCGCTCG CCGCAGCCGA 5821 ACGACCGAGC GCAGCGAGTC AGTGAGCGAG GAAGCCGGCG ATAATGGCCT GCTTCTCGCC 5881 GAAACGTTTG GTGGCGGGAC CAGTGACGAA GGCTTGAGCG AGGGCGTGCA AGATTCCGAA 5941 TACCGCAAGC GACAGGCCGA TCATCGTCGC GCTCCAGCGA AAGCGGTCCT CGCCGAAAAT 6001 6061 GACCCAGAGC GCTGCCGGCA CCTGTCCTAC GAGTTGCATG ATAAAGAAGA CAGTCATAAG TGCGGCGACG ACCGGTGAAT TGTGAGCGCT CACAATTCTC GTGACATCAT AACGTCCCGC 6121 6181 GAAAT

Application No.: Patrick Y. Lu et al. 10/551,667 Confirmation No.: 5623 For:

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For: TARGETS FOR TUMOR GROWTH INHIBITION
Agent: Alla Brukman Reg. No. 61,254
Express Mail Label No.: EM125015763US

REPLACEMENT SHEET

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(SEQ ID NO:68) Coding region for the N terminus 400 aa of ICT1024: 314-1515

1011	,21. 311 131	.5				
1	TAATACGACI	CACTATAGGG	GAATTGTGAG	CGGATAACAA	TTCCCCTCTA	GACTTACAAT
61	TTCCATTCGC	CATTCAGGCT	GCGCAACTGT	TGGGAAGGGC	GATCGGTACG	GGCCTCTTCG
121	CTATTACGCC	AGCTTGCGAA	CGGTGGGTGC	GCTGCAAGGC	GATTAAGTTG	GGTAACGCCA
181	GGATTCTCCC	AGTCACGACG	TTGTAAAACG	ACGGCCAGCG	AGAGATCTTG	ATTGGCTAGC
241	AGAATAATTT	TGTTTAACTT	TAAGAAGGAG	ATATACCATG	GCGATATCCC	GGGAGCTCGT
301	GGATCCGAAT	TCCATGAGTG	AGGCCCGCAG	GGACAGCACG	AGCAGCCTGC	AGCGCAAGAA
361	GCCACCCTGG	CTAAAGCTGG	ACATTCCCTC	TGCGGTGCCC	CTGACGGCAG	AAGAGCCCAG
421	CTTCCTGCAG	CCCCTGAGGC	GACAGGCTTT	CCTGAGGAGT	GTGAGTATGC	CAGCCGAGAC
481	AGCCCACATC	TCTTCACCCC	ACCATGAGCT	CCGGCGGCCG	GTGCTGCAAC	GCCAGACGTC
5.41	CATCACACAG	ACCATCCGCA	GGGGGACCGC	CGACTGGTTT	GGAGTGAGCA	AGGACAGTGA
601	CAGCACCCAG	AAATGGCAGC	GCAAGAGCAT	CCGTCACTGC	AGÇCAGCGCT	ACGGGAAGCT
661	GAAGCCCCAG	GTCCTCCGGG	AGCTGGACCT	GCCCAGCCAG	GACAACGTGT	CGCTGACCAG
721	CACCGAGACG	CCACCCCCAC	TCTACGTGGG	GCCATGCCAG	CTGGGCATGC	AGAAGATCAT
781	AGACCCCCTG	GCCCGTGGCC	GTGCCTTCCG	TGTGGCAGAT	GACACTGCGG	AAGGCCTGAG
841	TGCCCCACAC	ACTCCCGTCA	CGCCGGGTGC	TGCCTCCCTC	TGCTCCTTCT	CCAGCTCCCG
901	CTCAGGTTTC	CACCGGCTCC	CGCGGCGGCG	CAAGCGAGAG	TCGGTGGCCA	AGATGAGCTT
961	CCGGGCGGCC	GCAGCGCTGA	TGAAAGGCCG	CTCCGTTAGG	GATGGCACCT	TTCGCCGGGC
1021	ACGGCGTCGA	AGCTTCACTC	CAGCTAGCTT	TCTGGAGGAG	GACACAACTG	ATTTCCCCGA
1081	TGAGCTGGAC	ACATCCTTCT	TTGCCCGGGA	AGGTATCCTC	CATGAAGAGC	TGTCCACATA
1141	CCCGGATGAA	GTTTTCGAGT	CCCCATCGGA	GGCAGCGCTA	AAGGACTGGG	AGAAGGCACC
1201	GGAGCAGGCG	GACCTCACCG	GCGGGGCCCT	GGACCGCAGC	GAGCTTGAGC	GCAGCCACCT
1261	GATGUTGUU	TTGGAGCGAG	GCTGGCGGAA	GCAGAAGGAG	GGCGCCGCAG	CCCCGCAGCC
1321	CAAGGTGCGG	CTCCGACAGG	AGGTGGTGAG	CACCGCGGGG	CCGCGACGGG	GCCAGCGTAT
1381	CGCACCCC	GTGCGCAAGC	TCTTCGCCCG	GGAGAAGCGG	CCGTATGGGC	TGGGCATGGT
1441	GGGACGGCTC	ACCAACCGCA	CCTACCGCAA	GCGCATCGAC	AGCTTCGTCA	AGCGCCAGAT
1501	CGAGGACATG	GACATCGATA	CGCGTTCGAA	GCTTGCGGCC	GCACAGCTGT	ATACACGTGC
1561 1621	AAGUCAGCCA	GAACTCGCTC	CTGAAGACCC	AGAGGATCTC	GAGCACCACC	ACCACCACCA
1681					TCAATACTCC	
1741					GATGATAAGC	
1801	CCCCCCCCCCC	GAAGACGAAA	GGGCCTAGGC	TGATAAAACA	GAATTTGCCT	GGCGGCAGTA
	CMACMCMCCC	CCCACCTGAC	CCCATGCCGA	ACTCAGAAGT	GAAACGCCGT	AGCGCCGATG
1861.	COMCACHOCA	GTCTCCCCAT	GCGAGAGTAG	GGAACTGCCA	GGCATCAAAT	AAAACGAAAG
1921	ACMACCACACA	AAGACTGGGC	CTTTCGTTTT	ATCTGTTGTT	TGTCGGTGAA	CGCTCTCCTG
1981	AGTAGGACAA	ATCCGCCGGG-	AGCGGATTTG	AACGTTGCGA	AGCAACGGCC	CGGAGGGTGG
2041	CGGGCAGGAC	GCCCGCCATA	AACTGCCAGG	CATCAAATTA	AGCAGAAGGC	CATCCTGACG

Applicants: Patrick Y. Lu et al.
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2101	GATGGCCTTT	TTGCGTTTCT	ACAAACTCTT	TTGTTTATTT	TTCTAAATAC	ATTCAAATAT
2161	GTATCCGCTG	AGCAATAACT	AGCATAACCC	CTTGGGGCCT	CTAAACGGGT	CTTGAGGGGT
2221	TTTTTGCTGA	AAGGAGGAAC	TATATCCGGA	TTGGCGAATG	GGACGCGCCC	TGTAGCGGCG
2281	CATTAAGCGC	GGCGGGTGTG	GTGGTTACGC	GCAGCGTGAC	CGCTACACTT	GCCAGCGCCC
2341	TAGCGCCCGC	TCCTTTCGCT	TTCTTCCCTT	CCTTTCTCGC	CACGTTCGCC	GGCTTTCCCC
2401	GTCAAGCTCT	AAATCGGGGG	CTCCCTTTAG	GGTTCCGATT	TAGTGCTTTA	CGGCACCTCG
2461	ACCCCAAAAA	ACTTGATTAG	GGTGATGGTT	CACGTAGTGG	GCCATCGCCC	TGATAGACGG
2521	TTTTTCGCCC	TTTGACGTTG	GAGTCCACGT	TCTTTAATAG	TGGACTCTTG	TTCCAAACTG
2581	GAACAACACT	CAACCCTATC	TCGGTCTATT	CTTTTGATTT	ATAAGGGATT	TTGCCGATTT
2641	CGGCCTATTG	GTTAAAAAAT	GAGCTGATTT	AACAAAAATT	TAACGCGAAT	TTTAACAAAA
2701	TATTAACGTT	TACAATTTCT	GGCGGCACGA	TGGCATGAGA	TTATCAAAAA	GGATCTTCAC
2761	CTAGATCCTT	TTAAATTAAA	AATGAAGTTT	TAAATCAATC	TAAAGTATAT	ATGAGTAAAC
2821	TTGGTCTGAC	AGTTACCAAT	GCTTAATCAG	TGAGGCACCT	ATCTCAGCGA	TCTGTCTATT
28,81	TCGTTCATCC	ATAGTTGCCT	GACTCCCCGT	CGTGTAGATA	ACTACGATAC	GGGAGGGCTT
2941	ACCATCTGGC	CCCAGTGCTG	CAATGATACC	GCGAGACCCA	CGCTCACCGG	CTCCAGATTT
3001	ATCAGCAATA	AACCAGCCAG	CCGGAAGGGC	CGAGCGCAGA	AGTGGTCCTG	CAACTTTATC
3061	CGCCTCCATC	CAGTCTATTA	ATTGTTGCCG	GGAAGCTAGA	GTAAGTAGTT	CGCCAGTTAA
3121	TAGTTTGCGC	AACGTTGTTG	CCATTGCTAC	AGGCATCGTG	GTGTCACGCT	CGTCGTTTGG
3181	TATGGCTTCA	TTCAGCTCCG	GTTCCCAACG	ATCAAGGCGA	GTTACATGAT	CCCCCATGTT
3241	GTGCAAAAA	GCGGTTAGCT	CCTTCGGTCC	TCCGATCGTT	GTCAGAAGTA	AGTTGGCCGC
3301	AGTGTTATCA	CTCATGGTTA	TGGCAGCACT	GCATAATTCT	CTTACTGTCA	TGCCATCCGT
3361	AAGATGCTTT	TCTGTGACTG	GTGAGTACTC	AACCAAGTCA	TTCTGAGAAT	AGTGTATGCG
3421	GCGACCGAGT	TGCTCTTGCC	CGGCGTCAAT.	ACGGGATAAT	ACCGCGCCAC	ATAGCAGAAC
3481	TTTAAAAGTG	CTCATCATTG	GAAAACGTTC	TTCGGGGCGA	AAACTCTCAA	GGATCTTACC
3541	GCTGTTGAGA	TCCAGTTCGA	TGTAACCCAC	TCGTGCACCC	AACTGATCTT	CAGCATCTTT
3601	TACTTTCACC	AGCGTTTCTG	GGTGAGCAAA	AACAGGAAGG	CAAAATGCCG	CAAAAAAGGG
3661	AATAAGGGCG	AÇACGGAAAT	GTTGAATACT	CATACTCTTC	CTTTTTCAAT	CATGACCAAA
3721	ATCCCTTAAC	GTGAGTTTTC	GTTCCACTGA	GCGTCAGACC	CCGTAGAAAA	GATCAAAGGA
3781	TCTTCTTGAG	ATCCTTTTTT	TCTGCGCGTA	ATCTGCTGCT	TGCAAACAAA	AAAACCACCG
3841	CTACCAGCGG	TGGTTTGTTT	GCCGGATCAA	GAGCTACCAA	CTCTTTTTCC	GAAGGTAACT
3901	GGCTTCAGCA	GAGCGCAGAT	ACCAAATACT	GTCCTTCTAG	TGTAGCCGTA	GTTAGGCCAC
3961	CACTTCAAGA	ACTCTGTAGC	ACCGCCTACA	TACCTCGCTC	TGCTAATCCT	GTTACCAGTG
4021	GCTGCTGCCA	GTGGCGATAA	GTCGTGTCTT	ACCGGGTTGG	ACTCAAGACG	ATAGTTACCG
4081						CTTGGAGCGA
4141	ACGACCTACA	CCGAACTGAG	ATACCTACAG	CGTGAGCTAT	GAGAAAGCGC	CACGCTTCCC
4201	GAAGGGAGAA	AGGCGGACAG	GTATCCGGTA	AGCGGCAGGG	TCGGAACAGG	AGAGCGCACG
4261	AGGGAGCTTC	CAGGGGGAAA	CGCCTGGTAT	CTTTATAGTC	CTGTCGGGTT	TCGCCACCTC

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4321	TGACTTGAGC	GTCGATTTTT	GTGATGCTCG	TCAGGGGGGC	GGAGCCTATG	GAAAAACGCC
4381.	AGCAACGCGG	CCTTTTTACG	GTTCCTGGCC	TTTTGCTGGC	CTTTTGCTCA	CATGTTCTTT
4441	CCTGCGTTAT	CCCCTGATTC	TGTGGATAAC	CGTATTACCG	CCTTTGAGTG	AGCTGATACC
4501					GCGAGGAAGC	
4561	GGCCTGCTTC	TCGCCGAAAC	GTTTGGTGGC	GGGACCAGTG	ACGAAGGCTT	GAGCGAGGGC
4621	GTGCAAGATT	CCGAATACCG	CAAGCGACAG	GCCGATCATC	GTCGCGCTCC	AGCGAAAGCG
4681	GTCCTCGCCG	AAAATGACCC	AGAGCGCTGC	CGGCACCTGT	CCTACGAGTT	GCATGATAAA
4741	GAAGACAGTC	ATAAGTGCGG	CGACGACCGG	TGAATTGTGA	GCGCTCACAA	TTCTCGTGAC
4801	ATCATAACGT	CCCGCGAAAT	,			

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(SEQ ID NO 69) Coding region for the C terminus 373 aa of ICT1024: 308-1431

-	101102	.a. 500 1451	•				
	1	TAATACGACT	CACTATAGGG	GAATTGTGAG	CGGATAACAA	TTCCCCTCTA	GACTTACAAT
	61	TTCCATTCGC	CATTCAGGCT	GCGCAACTGT	TGGGAAGGGC	GATCGGTACG	GGCCTCTTCG
	121	CTATTACGCC	AGCTTGCGAA	CGGTGGGTGC	GCTGCAAGGC	GATTAAGTTG	GGTAACGCCA
	181	GGATTCTCCC	AGTCACGACG	TTGTAAAACG	ACGGCCAGCG	AGAGATCTTG	ATTGGCTAGC
	241	AGAATAATTT	TGTTTAACTT	TAAGAAGGAG	ATATACCATG	GCGATATCCC	GGGAGCTCGT
?	301	GGATCCGAAT	TCCCAGGTGC	ACAGCTTCAT	TCGCTCGGCG	CGCGAGCGCG	AGAAGCACTC
	361	CGCCTGCTGC	GTGCGCAACG	ACAGGTCGGG	CTGCGTGCAG	ACCTCGGAGG	AGGAGTGCTC
	421	GTCCACGCTG	GCAGTGTGGG	TGAAGTGGCC	CATCCATCCC	AGCGCCCAG	AGCTTGCGGG
	481	CCACAAGAGA	CAGTTTGGCT	CTGTCTGCCA	CCAGGATCCC	AGGGTGTGTG	ATGAGCCCTC.
	541	CTCCGAAGAC	CCTCATGAGT	GGCCAGAAGA	CATCACCAAG	TGGCCGATCT	GCACCAAAAA
	601	CAGCGCTGGG	AACCACACCA	ACCATCCCCA	CATGGACTGT	GTCATCACAG	GACGGCCCTG
	661	CTGCATTGGC	ACCAAGGGCA	GGTGTGAGAT	CACCTCCCGG	GAGTACTGTG	ACTTCATGAG
	721	GGGCTACTTC	CATGAGGAGG	CCACGCTCTG	CTCTCAGGTG	CACTGCATGG	ATGATGTGTG
	781	TGGGCTCCTG	CCTTTTCTCA	ACCCCGAGGT	GCCTGACCAG	TTCTACCGCC	TGTGGCTATC
	841	CCTCTTCCTG	CACGCCGGGA	TCTTGCACTG	CCTGGTGTCC	ATCTGCTTCC	AGATGACTGT
	901	CCTGCGGGAC	CTGGAGAAGC	TGGCAGGCTG	GCACCGCATA	GCCATCATCT	ACCTGCTGAG
	961	TGGTGTCACC	GGCAACCTGG	CCAGTGCCAT	CTTCCTGCCA	TACCGAGCAG	AGGTGGGTCC
- 3	1021					GAGCTCTTCC	
13	1081	GATCCTGGCG	CGGCCCTGGC	GTGCCTTCTT	CAAGCTGCTG	GCTGTGGTGC	TCTTCCTCTT
3	1141	CACCTTTGGG	CTGCTGCCGT	GGATTGACAA	CTTTGCCCAC	ATCTCGGGGT	TCATCAGTGG
	1201	CCTCTTCCTC	TCCTTCGCCT	TCTTGCCCTA	CATCAGCTTT	GGCAAGTTCG	ACCTGTACCG
`	1261	GAAACGCTGC	CAGATCATCA	TCTTTCAGGT	GGTCTTCCTG	GGCCTCCTGG	CTGGCCTGGT
•	1321	GGTCCTCTTC	TACGTCTATC	CTGTCCGCTG	TGAGTGGTGT	GAGTTCCTCA	CCTGCATCCC
	1381	CTTCACTGAC	AAGTTCTGTG	AGAAGTACGA	ACTGGACGCT	CAGCTCCACA	TCGATACGCG
	1441	TTCGAAGCTT	GCGGCCGCAC	AGCTGTATAC	ACGTGCAAGC	CAGCCAGAAC	TCGCTCCTGA
	1501					TGTTAATTAA	
				•		ATTTAACTGT	
	1621					ATTCTTGAAG	
	1681		•			GGTGGTCCCA	
	1741					TGTGGGGTCT	
	1801					AGTCGAAAGA	
	1861					GGACAAATCC	
	1921					CAGGACGCCC	
	1981						GTTTCTACAA
	2041	ACTCTTTTGT	TTATTTTCT	AAATACATTC	AAATATGTAT	CCGCTGAGCA	ATAACTAGCA

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	•					
2101	TAACCCCTTG	GGGCCTCTAA	ACGGGTCTTG	AGGGGTTTTT	TGCTGAAAGG	AGGAACTATA
2161	TCCGGATTGG	CGAATGGGAC	GCGCCCTGTA	GCGGCGCATT	AAGCGCGGCG	GGTGTGGTGG
2221	TTACGCGCAG	CGTGACCGCT	ACACTTGCCA	GCGCCCTAGC	GCCCGCTCCT	TTCGCTTTCT
2281	TCCCTTCCTT	TCTCGCCACG	TTCGCCGGCT	TTCCCCGTCA	AGCTCTAAAT	CGGGGGCTCC
2341	CTTTAGGGTT	CCGATTTAGT	GCTTTACGGC	ACCTCGACCC	CAAAAAACTT	GATTAGGGTG
2401	ATGGTTCACG	TAGTGGGCCA	TCGCCCTGAT	AGACGGTTTT	TCGCCCTTTG	ACGTTGGAGT
2461	CCACGTTCTT	TAATAGTGGA	CTCTTGTTCC	AAACTGGAAC	AACACTCAAC	CCTATCTCGG
2521	TCTATTCTTT	TGATTTATAA	GGGATTTTGC	CGATTTCGGC	CTATTGGTTA	AAAAATGAGC
2581	TGATTTAACA	AAAATTTAAC	GCGAATTTTA	ACAAAATATT	AACGTTTACA	ATTTCTGGCG
2641	GCACGATGGC	ATGAGATTAT	CAAAAAGGAT	CTTCACCTAG	ATCCTTTTAA	ATTAAAAATG
2701	AAGTTTTAAA.	TCAATCTAAA	GTATATATGA	GTAAACTTGG	TCTGACAGTT	ACCAATGCTT
2761	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	TCTATTTCGT	TCATCCATAG	TTGCCTGACT
2821	CCCCGTCGTG	TAGATAACTA	CGATACGGGA	GGGCTTACCA	TCTGGCCCCA	GTGCTGCAAT
2881	GATACCGCGA	GACCCACGCT	CACCGGCTCC	AGATTTATCA	GCAATAAACC	AGCCAGCCGG
2941	AAGGGCCGAG	CGCAGAAGTG	GTCCTGCAAC	TTTATCCGCC	TCCATCCAGT	CTATTAATTG
3001	TTGCCGGGAA	GCTAGAGTAA	GTAGTTCGCC	AGTTAATAGT	TTGCGCAACG	TTGTTGCCAT
3061	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	GTTTGGTATG	GCTTCATTCA	GCTCCGGTTC
3121					AAAAAAGCGG	
3181	CGGTCCTCCG	ATCGTTGTCA	GAAGTAAGTT	GGCCGCAGTG	TTATCACTCA	TGGTTATGGC
3241					TGCTTTTCTG	· ·
3301	GTACTCAACC	AAGTCATTCT	GAGAATAGTG	TATGCGGCGA	CCGAGTTGCT	CTTGCCCGGC
3361				·	AAAGTGCTCA	
3421					TTGAGATCCA	
3481					TTCACCAGCG	
3541					AGGGCGACAC	
3601					CTTAACGTGA	
3661					CTTGAGATCC	
3721					CAGCGGTGGT	
3781					TCAGCAGAGC	
3841					TCAAGAACTC	
3901					CTGCCAGTGG	
3961					AGGCGCAGCG	
4021					CCTACACCGA	
4081					GGAGAAAGGC	
4141					AGCTTCCAGG	
4201					TTGAGCGTCG	
4261	·TGCTCGTCAG	GGGGGCGGAG	CCTATGGAAA	AACGCCAGCA	ACGCGGCCTT	TTTACGGTTC

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4321	CTGGCCTTTT GCTGGCCTTT	TGCTCACATG	TTCTTTCCTG	CGTTATCCCC	TGATTCTGTG
4381	GATAACCGTA TTACCGCCTT				
4441	CGCAGCGAGT CAGTGAGCGA	GGAAGCCGGC	GATAATGGCC	TGCTTCTCGC	CGAAACGTTT
4501	GGTGGCGGGA CCAGTGACGA				
4561	CGACAGGCCG ATCATCGTCG	CGCTCCAGCG	AAAGCGGTCC	TCGCCGAAAA	TGACCCAGAG
4621	CGCTGCCGGC ACCTGTCCTA				
4681	GACCGGTGAA TTGTGAGCGC	TCACAATTCT	CGTGACATCA	TAACGTCCCG	CGAAAT

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	*
USER PARAMETERS AND SCORING INFORMATION	
METHOD SELECTED TO LIMIT NUMBER OF RESULTS	EXPLICIT NUMBER
NUMBER OF RESULTS REQUESTED	20
HLA MOLECULE TYPE SELECTED	A_0201
LENGTH SELECTED FOR SUBSEQUENCES TO BE SCORED	9
ECHOING MODE SELECTED FOR INPUT SEQUENCE	Y
ECHOING FORMAT	NUMBERED LINES
LENGTH OF USER'S INPUT PEPTIDE SEQUENCE	803
NUMBER OF SUBSEQUENCE SCORES CALCULATED	795

NUMBER OF TOP-SCORING SUBSEQUENCES REPORTED BACK IN SCORING OUTPUT TABLE

	SCORING RESULTS					
RÄNK	START POSITION	SUBSEQUENCE RESIDUE LISTING	SCORE (ESTIMATE OF HALF TIME OF DISASSOCIATION OF A MOLECULE CONTAINING THIS SUBSEQUENCE)			
1	425	MMPKYLNFV	1080.239			
2	410	KLYVRRVFI	642.660			
3	557.	RLLKKGYEV	257.342			
4	203	FLVADKVIV	131.175			
5	144	LLHVTDTGV	118.238			
6	547	KEAESSPFV	106.738			
7	639	RLTESPCAL	87.586			
8	381	VTFKSILFV	76.863			
9	3	ALWVLGLCC	41.234			
10	6	VLGLCCVLL	36.316			
11	189	SELIGOFGV	29.023			
12	741	RMLRLSLNI	27.879			
13	451	LQQHKLLKV	27.573			
14	280	YVWSSKTET	24.895			
15	259	LELDTIKNL	24.638			
16	417	FITDDFHDM	24.478			
17	467	KTLDMIKKI	17.695			
18	463	KLVRKTLDM	17.388			
19	429	YLNFVKGVV	17.053			
20	197	VGFYSAFLV	16.564			

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SUGGESTED MODELS FOR TRANSMEMBRANE TOPOLOGY FOR ICT 1025

---> STRONGLY prefered model: N-terminus inside 2 strong transmembrane helices, total score: 2962 # from to length score orientation 1 3 19 (17) 2034 i-o 2 191 212 (22) 928 o-i

----> alternative model 2 strong transmembrane helices, total score : 2607 # from to length score orientation 1 3 19 (17) 1929 o-i 2 191 213 (23) 678 i-o

FIG. 34

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"DAS" - TRANSMEMBRANE PREDICTION SERVER ICT 1025

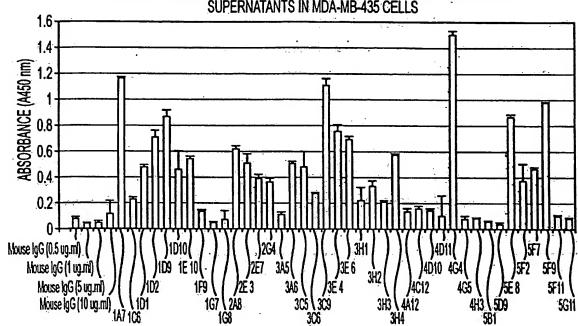
POTENTIAL TRANSMEMBRANE SEGMENTS START STOP LENGTH~ **CUTOFF** 18 13 1.7* 2.2 1.7* 17 11. 195 209 15 197 206 10 2.2 247 248 2 384 390 7 1.7 1.7 723 14 713 719 .7 2.2*

FIG. 35

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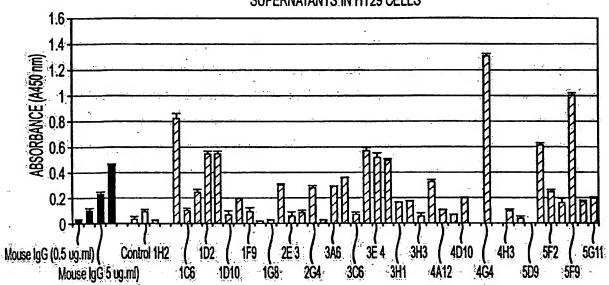
SCREENING OF ICT1025 mAb FOR SURFACE BINDING ACTIVITIES IN BREAST TUMOR CELL

FIG. 36

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SCREENING OF ICT1025 MAD FOR SURFACE BINDING ACTIVITIES IN COLON TUMOR CELLS

FIG. 37

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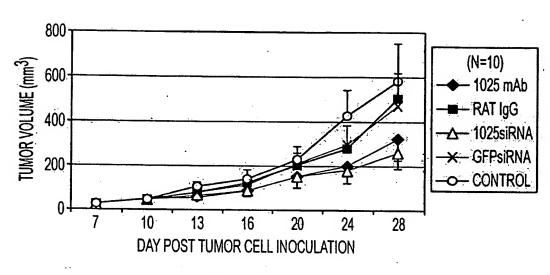


FIG. 38